



# Gregory Allen Pope

## Curriculum Vitae, October 30, 2023

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### CONTACT INFORMATION

**Office:**

Department of Earth and Environmental Studies  
Center for Environmental and Life Sciences 220  
College of Science and Mathematics  
Montclair State University  
Montclair, New Jersey 07043  
973-655-7569, [popeg@mail.montclair.edu](mailto:popeg@mail.montclair.edu)

**Home:**

3 Fieldstone Court  
Randolph, New Jersey 07869  
973-620-9394  
[gregolith@yahoo.com](mailto:gregolith@yahoo.com)

### PERSONAL INFORMATION

**Current position and rank**

Professor (tenured), Montclair State University, doctoral faculty

**Areas of research interest**

Geomorphology, weathering processes, soil development, geoarchaeology, stone conservation, global environmental change.

**Areas of teaching interest**

Physical geography, environmental geology, environmental studies

**Biography**

Raised in Colorado; East Coast resident since 1996. Married, two children. Hobbies include music performance, outdoor recreation, cooking, travel, and aviation history.

**Education**

- 1994 Ph.D., Geography, Arizona State University. Advisor: Ronald I. Dorn. Dissertation: *A Weathering Boundary Layer Model to Interpret Spatial Variation in Weathering*. Committee members: Melvin Marcus, Anthony Brazel, and Deborah Elliot-Fisk (UC-Davis, external member).
- 1990 M.A., Geography, Arizona State University. Co-advisors: Ronald I. Dorn and Melvin G. Marcus. Thesis: *Quartz Decrystallization in Glacial Tills, Eastern Sierra Nevada, California*. Committee member: William Graf.
- 1987 B.A., Distributed Studies (in Geology and Geography, double major), University of Colorado, Colorado Springs. Graduated with honors.

**Employment**

- 2015- Professor, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey. Doctoral Faculty 2019-present
- 2019-22 Department Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey
- 2017-19 Interim Department Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey
- 2016-17 Associate Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey
- 2015-16 Interim Associate Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey
- 2001-15 Associate Professor, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey. Tenured and promoted. Doctoral Faculty awarded 2003.
- 2003-06 Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey
- 2001-03 Associate Chair, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey (acting chair for Spring 2003 semester)

- 2002 (fall) Visiting Professor, Department of Geography/Geoscience, New Jersey City University, Jersey City, New Jersey.
- 1996-2001 Assistant Professor, Department of Earth and Environmental Studies, Montclair State University, Montclair, New Jersey.
- 1995-96 Visiting Lecturer, Department of Geography, University of Southern California, Los Angeles.
- 1995 Mine Inspector Intern, Abandoned and Inactive Mine Survey, Arizona State Mine Inspector Office, Phoenix.
- 1995 Faculty Associate, Department of Geography, Arizona State University, Tempe.
- 1995 Field Analyst, Archaeological Consulting Services, Ltd., Tempe, Arizona, Tempe.
- 1994 Teaching Associate, Department of Geography, Arizona State University, Tempe.
- 1993-94 Graduate Associate, Office of Research and Creative Activities, Vice President for Research, Arizona State University, Tempe.
- 1990-93 Teaching Associate, Department of Geography, Arizona State University, Tempe.
- 1989-92 Research Assistant, Department of Geography, Arizona State University, Tempe.
- 1988-89 Teaching assistant, Department of Geography, Arizona State University, Tempe.
- 1988 Geography Intern, National Geographic Society, Washington, D.C. (Winter/Spring semester)

### Consulting

- 2004-08 Scholar (expert witness) on file, The Round Table Group
- 2004 Expert witness, for Mr. Joseph Lipari, Toms River, New Jersey [house site and climate]
- 1996 Reviewer and panelist, Prentice Hall Publishing Company
- 1995 Geoarchaeologist, Dames & Moore, Inc., Phoenix, Arizona.
- 1994-95 Petrographic analyst, Archaeological Consulting Services, Tempe, Arizona.
- 1993 Contributing writer, National Geography Bee, National Geographic Society, Washington, DC.

## RESEARCH (PUBLICATIONS, PRESENTATIONS, GRANTS)

### Published articles, chapters, and books.

Peer-reviewed and edited unless designated, identified after the date as a book or monographs (B), proceedings chapter (P), book chapter (C), periodical article (A), encyclopedia entry (E), fieldtrip guidebook (G).

- In press C **Pope, Gregory A.** The Resisting Framework: Rocks, Minerals, and the Biosphere. (Chapter 5). In Schaetzel, Randall, and Marston, Richard (eds.), *Essentials of Geomorphology*. Cambridge University Press. In press.
- 2022 B **Pope, Gregory A., ed.** *Weathering and Soils Geomorphology, Volume 3, Treatise in Geomorphology, 2<sup>nd</sup> Edition* (Shroder, J.J.F., series editor.) [20 chapters, 16 authors.] San Diego: Elsevier, Academic Press.
- 2022 C **Pope, Gregory A.** Overview of weathering and soils geomorphology. In **Pope, Gregory A.** (ed.) and Shroder, J.J.F. (series editor), *Weathering and Soils Geomorphology, 2<sup>nd</sup> Edition, Volume 3, Treatise in Geomorphology*. San Diego: Elsevier, Academic Press, pp. 1-12.
- 2022 C **Pope, Gregory A.** Generating sediment. In **Pope, Gregory A.** (ed.) and Shroder, J.J.F. (series editor), *Weathering and Soils Geomorphology, 2<sup>nd</sup> Edition, Volume 3, Treatise in Geomorphology*. San Diego: Elsevier, Academic Press, pp. 46-56.
- 2022 C **Pope, Gregory A.** Weathering in the tropics, and related extratropical processes. In **Pope, Gregory A.** (ed.) and Shroder, J.J.F. (series editor), *Weathering and Soils Geomorphology*,

2<sup>nd</sup> Edition, Volume 3, *Treatise in Geomorphology*. San Diego: Elsevier, Academic Press, pp. 279-298.

- 2015 C **Pope, Gregory A.** Regolith and Weathering (Rock Decay) in the Critical Zone. In Giardino, John R., and Houser, Chris (eds.), *Principles and Dynamics of the Critical Zone*. Developments in Earth Surfaces Processes Series, Volume 19, J. Shroder, series editor. Amsterdam, Elsevier, p 113-145.
- 2015 P Chatr Aryamontri, Deborah; **Greg Pope**; and Timothy Renner. Indagini archeologiche presso la ‘Villa degli Antonini’ (Genzano di Roma). *Lazio e Sabina, 11° Incontro di studi, 4-6 giugno, 2014*, p. 135-142.
- 2015 P **Pope, Gregory A.**; Deborah Chatr Aryamontri; Laying Wu; and Timothy Renner. Deterioration of stone and mineral materials from the Roman Imperial Villa of the Antonines at ancient Lanuvium. In Lollino, G. (ed.), *Engineering Geology for Society and Territory (IAEG 2014)*. Cham, Switzerland: Springer International Publishing, p. 495-501.
- 2015 P **Pope, G.A.**, and V.C. Miranda. *REPRINT (Routledge, New York) of same, 2004, see below.*
- 2013 B **Pope, Gregory A.**, editor. *Weathering and Soils Geomorphology. Volume 4, Treatise in Geomorphology*. John Shroder, series editor. San Diego: Academic Press ( Elsevier), 324pp.
- 2013 C **Pope, Gregory A.** Overview of weathering and soils geomorphology. In **Pope, Gregory A.** (ed.) and Shroder, John (series editor), *Weathering and Soils Geomorphology, Volume 4, Treatise in Geomorphology*. San Diego: Academic Press ( Elsevier), p. 1-11.
- 2013 C **Pope, Gregory A.** Weathering in the tropics, and related extratropical processes. In **Pope, Gregory A.** (ed.) and Shroder, John (series editor), *Weathering and Soils Geomorphology, Volume 4, Treatise in Geomorphology*. San Diego: Academic Press ( Elsevier), p. 179-196.
- 2013 C **Pope, Gregory A.** Generating sediment. In **Pope, Gregory A.** (ed.) and Shroder, John (series editor), *Weathering and Soils Geomorphology, Volume 4, Treatise in Geomorphology*. San Diego: Academic Press ( Elsevier), p. 284-293.
- 2010 E **Pope, Gregory A.** Rock Weathering. (encyclopedia entry). In Warf, Barney, (ed.), *Encyclopedia of Geography*, pp. 2477-2484. Thousand Oaks, California: SAGE Publications. [invited and edited submission]
- 2010 A Reynard-Callanan, Jennifer R.; **Gregory A. Pope**; Matthew L. Goring; Huan Feng. Effects of high intensity forest fires on soil clay mineralogy. *Physical Geography*, v. 31, no. 5, p. 407-422.
- 2009 A **Pope, Gregory A.**; Andrew J. Temples; Sean I. McLearn; Joanne C. Kornoelje; and Thomas J. Glynn. The nature of boulder-rich deposits in the upper Big Flat Brook drainage, Sussex County, New Jersey. *The Middle States Geographer*, v. 42, p. 33-43.
- 2005 A Solecki, W.D.; C. Rosenzweig; L. Parshall; **G. Pope**; M. Clark; J. Cox; and M. Weincke. Mitigation of the heat island effect in urban New Jersey. *Global Environmental Change B: Environmental Hazards*, v. 6, issue 1, p. 39-49.
- 2005 A Rosenzweig, C.; W.D. Solecki; L. Parshall; M. Chopping; **G. Pope**; and R. Goldberg. Characterizing the urban heat island in current and future climates in New Jersey. *Global Environmental Change B: Environmental Hazards*, v. 6, issue 1, p. 51-62.
- 2004 A Feng, Z.D.; H.B. Wang; C. Olson; **G.A. Pope**; F.H. Chen; J.W. Zhang; and C.B. An. Chronological discord between the last interglacial paleosol (S1) and its parent material in the Chinese Loess Plateau. *Quaternary International*, v. 117, pp. 17-26.

- 2004 C Beyer, P.J.; **Pope, G.A.**; and Applegarth, M.T. Digging with the Devil: Physical Geography and Resource Use in the New Jersey Pine Barrens. In Dougherty, P.H. (Ed.) *Geography of the Philadelphia Region: Cradle of Democracy*, pp. 17-24. Washington, DC: Association of American Geographers.
- 2004 P **Pope, G.A.**, and V.C. Miranda. Weathering of megaliths – evidence for rapid adjustment to new environmental conditions. In B.J. Smith and A.V. Turkington (eds.), *Stone Decay: Its Causes and Controls. Proceedings, Weathering 2000, Belfast, Northern Ireland, June 26-30*. Shaftesbury, United Kingdom: Donhead Publishing Ltd., pp. 199-223. [modification of Pope and Miranda, 1999, below] [Reprinted 2015 by Routledge.]
- 2004 P Solecki, William D.; Cynthia Rosenzweig; **Gregory Pope**; Lily Parshall; Mary Wiencke. Current and future urban heat island effect and potential mitigation strategies in the greater Newark, New Jersey region. *Urban Heat Island Summit: Mitigation of and Adaptation to Extreme Summer Heat, Toronto, Ontario, Canada, May 1-3, 2002*. Toronto: The Clean Air Partnership, available at [http://www.cleanairpartnership.org/uhis\\_summit\\_finalpapers.htm](http://www.cleanairpartnership.org/uhis_summit_finalpapers.htm).
- 2002 A/P **Pope, Gregory A.**; Thomas C. Meierding; and Thomas R. Paradise. Geomorphology's role in the study of weathering of cultural stone. *Geomorphology*, v. 47, issues 2-4, pp. 211-226. (*Special Issue, Geomorphology in the Public Eye: Policy Issues, Education, and the Public, 30<sup>th</sup> Annual Binghamton Geomorphology Symposium*, ed. by P.L.K. Knuepfer and J.F. Peterson.) INVITED PAPER.
- 2002 P **Pope, Gregory A.**; John M. Stavash; and Jean C. Walker. Spatial variability of acid precipitation at the local scale. In R. Prikryl and H. Viles (eds.), *Understanding and Managing Stone Decay – Proceedings, Stone Weathering and Atmospheric Pollution Network International Conference, May 7-11, 2001, Prachov Rocks, Czech Republic*, Prague: Karolinum Press, pp. 131-150.
- 2002 P **Pope, Gregory A.** Weathering of granitic structures: 6000 years of exposure in Portugal. In J. Herrmann, N. Herz, and R. Newman (eds.), *ASMOSIA 5, Interdisciplinary Studies on Ancient Stone – Proceedings of the Fifth International Conference of the Association for the Study of Marble and Other Stones in Antiquity, Museum of Fine Arts, Boston, June 1998*, London: Archetype Press, pp. 407-414.
- 2001 A/P **Pope, Gregory A.** Weathering impacts on petroglyph engravings and rock panels. *American Indian Rock Art*, v. 27, pp. 97-105.
- 2001 C **Pope, Gregory A.** The Watchungs: A prominent landform in New Jersey's physical and suburban landscape. In *Snapshots of New York City, Hudson to the Hamptons: Guidebook to the 2001 Association of American Geographers Annual Meeting*, ed. I. Miyares, M. Pavlovskaya, and G. Pope, pp. 126-133. New York: Dept. of Geography, Hunter College, City University of New York.
- 2001 C Miyares, Ines; Marianna Pavlovskaya; and **Gregory Pope**. Foreword. In *Snapshots of New York City, Hudson to the Hamptons: Guidebook to the 2001 Association of American Geographers Annual Meeting*, ed. I. Miyares, M. Pavlovskaya, and G. Pope, pp. 5-7. New York: Dept. of Geography, Hunter College, City University of New York.
- 2001 B Miyares, Ines; Marianna Pavlovskaya; and **Gregory Pope** (eds.), *Snapshots of New York City, Hudson to the Hamptons: Guidebook to the 2001 Association of American Geographers Annual Meeting*. New York: Dept. of Geography, Hunter College, City University of New York. 187 p.
- 2001 G **Pope, Gregory A.**; and Beyer, Patricia J. *Cultural Stone of Central Park: Outcrops, Arches and Statues. Field Trip Guide*. Field trip guidebook, March 2, 2001, Association of

American Geographers 97<sup>th</sup> Annual Meeting, New York City. Bloomsburg, Pennsylvania: Department of Geography and Geosciences, Bloomsburg University; and Upper Montclair, New Jersey: Department of Earth and Environmental Studies, Montclair State University (Occasional Publications Series #2).

- 2000 A **Pope, Gregory A.** Weathering of petroglyphs: Direct assessment and implications for dating methods. *Antiquity*, v. 74, no. 286, pp. 833-843.
- 1999 A **Pope, Gregory A.**, and Vera C. Miranda. A geomorphology of megaliths: Neolithic landscapes in the Alto Alentejo, Portugal. *The Middle States Geographer*, v. 32, pp. 110-124.
- 1999 A **Pope, Gregory A.**, and Ruth Rubenstein. Anthroweathering: Theoretical framework and case study for human-impacted weathering. *Geoarchaeology*, v. 14, no. 3, pp. 247-264.
- 1995 A **Pope, Gregory A.** Internal weathering in quartz grains. *Physical Geography*, v. 16, no. 4, pp. 315-338.
- 1995 A **Pope, Gregory A.** Newly discovered submicron-scale weathering in quartz: Geographical Implications. *The Professional Geographer*, v. 47, no. 4, pp. 375-387.
- 1995 A **Pope, Gregory A.**; Ronald I. Dorn; and John C. Dixon. A new conceptual model for understanding geographical variations in weathering. *Annals of the Association of American Geographers*, v. 84, no. 1, pp. 38-64.
- 1993 A Wasklewicz, Thad; Ronald I. Dorn; Sandra Clark; John Hetrick; **Gregory Pope**; Tanzhou Liu; D.H. Krinsley; John Dixon; R.B. Moore; and James Clark. Olivine does not necessarily weather first. *Singapore Journal of Tropical Geography*, v. 14, no. 1, pp. 72-80.
- 1993 G Dorn, Ronald I., and Norman Meek; with contributions by A. Bach; P. Beyer; J. Hetrick; T. Liu; **G. Pope**; and T. Wasklewicz. *Geomorphology: Mojave Desert to Death Valley*. International Association of Geomorphologists 3<sup>rd</sup> International Geomorphological Conference Guide to Field Excursion A3. Tempe, Arizona: Arizona State University Department of Geography Publication No. 4, 131 p.
- 1989 G **Pope, Gregory A.** Florence Junction area. In Graf, William L. (ed.), *Field Trip Guidebook for Queen Creek, South Central Arizona*. Department of Geography, Arizona State University.

## Technical Reports

- 2020 Broccoli, Anthony J; Michael Aucott; Mark J. Chopping; Maurie J. Cohen; Joann L. Held; Philip K. Hopke; Robin M. Leichenko; William E. McMillan; **Gregory A. Pope**; David A. Robinson; Alan Robock; and Richard Vaccaro. New Jersey Climate Change Charge Question. Prepared by the Climate and Atmospheric Sciences Standing Committee, for the Science Advisory Board, New Jersey Department of Environmental Protection.
- 2020 Galster, Joshua, and **Greg Pope**. Report on Boonton, New Jersey hillslope erosion. Prepared for the Town of Boonton, New Jersey, January, 2020.
- 2016 Broccoli, A.J.; Aucott, M.; Chopping, M.J.; Cohen, M.J.; Held, J.L.; Hopke, P.K.; Leichenko, R.M.; McMillin, W.E.; **Pope, G.A.**; Robinson D.A.; Robock, A.; Vaccaro, R. *Report of the New Jersey Department of Environmental Protection Science Advisory Board: NJ Climate Change Charge Question* (Climate and Atmospheric Sciences Standing Committee). January 24, 2016. URL: <http://www.state.nj.us/dep/sab/>.

- 2014 **Pope, Gregory A.** Preliminary interpretations of stable isotope ( $\delta^{18}\text{O}$  and  $\delta^{13}\text{C}$ ) analysis of the so called Apollo from the *Ager Lanuvinus* and the enthroned Caligula statue from Nemi. Submitted to Dr. Roberto Civetta, Rome, Italy.
- 2005 Solecki, William D.; Cynthia Rosenzweig; **Gregory Pope**; Mark Chopping; Richard Goldberg; Alex Polissar. Urban heat island and climate change: An assessment of interacting and possible adaptations in the Camden, New Jersey region. Environmental Assessment and Risk Analysis Element, Research Project Summary, New Jersey Department of Environmental Protection, Division of Science, Research and Technology, Trenton, New Jersey.  
<https://www.nj.gov/dep/dsr/research/Urban%20Heat%20Island%20and%20Climate%20Change-RPS.pdf>
- 2002 Solecki, William D.; Cynthia Rosenzweig; **Gregory Pope**; Maria Clark; Vera Lazar; and Richard Goldberg. Analysis of the current and future heat island effect in the Greater Camden, New Jersey region and potential adaptations. Interim report submitted to the New Jersey Department of Environmental Protection, Trenton, New Jersey.
- 1995 Rubenstein, Ruth; David E. Doyel; and **Gregory A. Pope**. Ground and pecked stone artifacts. In Doyel, David E. , Black, Andrew T., and Macnider, Barbara S. (eds.), *Archaeological Excavations at Pueblo Blanco: The MCDOT Alma School Road Project, Volume 2*. Tempe, Arizona: Archeological Consulting Services, Ltd., Cultural Resources Report No. 90, pp. 307-328. (tDAR id: 427807) ; doi:10.6067/XCV8427807  
<https://core.tdar.org/document/427807/archaeological-excavations-at-pueblo-blanco-the-mcdot-alma-school-road-project-volume-2>
- 1995 **Pope, Gregory A.** Geomorphology and geoarchaeology of the Yavapai Substation and Transmission Line Facilities Project. In Darrington, Glenn P, and Bruder, J. Simon (eds.), *Yavapai Substation and Transmission Line Facilities Project, Data Recovery*. Phoenix, Arizona: Dames & Moore Intermountain Cultural Resource Services.
- 1992 **Pope, Gregory A.** Multiparameter assessment of bedrock weathering in an archaeological context, Salt River Valley, Arizona: a pilot study. On file at Pueblo Grande Museum Library, Phoenix, Arizona.

#### Manuscripts in Preparation or in review (peer review)

- In revision Darley, Jason; Flood, Michael; **Pope, Gregory**; Callanan, Jennifer; Li, Xiaona; and Hazen, Matthew, in review. Wood ash and soil chemistry following fire in the central Appalachian mixed hardwood forests. To be submitted to *Catena*.
- In revision **Pope, Gregory A.**, Deborah Chatr Aryamontri; Nicolas Zarro; Matthew Gorrington; Laying Wu; and Timothy Renner. Archaeometric analysis on glass tesserae from the imperial Roman ‘Villa degli Antonini’ in the Alban Hills. To be submitted to *Studies in Conservation*.
- Pope, Gregory A.** and Nicole Cervený, *Field Triage Methods for Cultural Stone and Rock Art: Leveraging Accessible Tools to Capture Rich Conservation Data*. In preparation, invited paper for special issue for *Annals of the American Association of Geographers* (late 2023).
- Chatr Aryamontri, Deborah, Timothy Renner, **Greg Pope**, Carlo Albo, Roberto Civetta, Carla Mattei, Daniele Nepi, Claudio Vecchi. *Nuove scoperte dalla “Villa degli Antonini” a Genzano di Roma. Le indagini 2015-2019*. In preparation for *Lazio e Sabina*.

*Geography of Green Pond Conglomerate as Building Stone in Morris County, New Jersey.* In preparation, to be submitted to *The Middle States Geographer*.

*Brick weathering at Villa of the Antonines.* Data from the Villa of the Antonines archaeology field school. To be submitted to *Stone Conservation*.

### Book reviews

- 2000 for Birkeland, *Soils and Geomorphology*, 3<sup>rd</sup> ed. (1999). In *Geomorphology*, v. 35, pp. 163-167.
- 2000 for Bland and Rolls, *Weathering: An Introduction to the Scientific Principles* (1998). In *Annals of the Association of American Geographers*, v. 90(2), p. 409-411.

### Research paper and poster presentations (abstracts, if published, in parentheses)

- 2023 **Pope, Gregory A.** and Vanessa Glaser. Igneous erratics in the Kittatinny Mountain Area of Sussex County, New Jersey: Clues to Glacial Flow and Erosion. GSA Connects 2023, 15-18 October, Pittsburgh, Pennsylvania. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-395017 (Abstract online: <https://gsa.confex.com/gsa/2023AM/meetingapp.cgi/Paper/395017> )
- 2023 **Pope, Gregory A.** and Triantafilo Miriagos. Comparison of field triage methods for historic stone, brick, and concrete structures. *American Association of Geographers Annual Meeting, Denver, Colorado, March 23-27, 2023.* Special paper session, *Changing Geography of National Parks and Protected Areas 2*, Friday, March 24. Oral. (Abstracts online: <https://aag.secure-platform.com/aag2023/solicitations/39/sessiongallery/5901/application/22551> )
- 2023 Glaser, Vanessa; Matthew Gorrington; **Gregory Pope**; Peter Siegel; Zachary Beier; Sherene James-Williamson; Simon Mitchell. Petrographic analysis of pottery from the White Marl Archaeological Site, St. Catherine Parish, Jamaica, West Indies. Session T12 Undergraduate Research Posters II. 2023 Joint Southeastern & Northeastern Section Meeting, Geological Society of America, 17-19 March 2023, Reston, Virginia (Abstract online: <https://gsa.confex.com/gsa/2023SE/meetingapp.cgi/Paper/386103> )
- 2022 **Pope, Gregory A.** Tools in environmental assessment of cultural heritage. In Session I, Technologies for Documenting, Managing, and Engaging with Cultural Heritage. Bridging the Gap Between Past and Present: Fostering a Sustainable, Global Approach to Cultural Heritage in Diverse Communities, April 28-29, 2022, Montclair State University, Montclair, New Jersey.
- 2022 Vazquez, Diego; **Pope, Gregory A.**; and Li, Xiaona. Forest fire impacts on soil chemistry in an Appalachian forest: Factors of temperature, moisture, and organic matter. Geological Society of America Northeastern Section Meeting, 20-22 March, Lancaster, Pennsylvania, USA (*Program* v. 54, no. 3).
- 2021 **Pope, Gregory A.**; Jennifer R. Callanan; Jason Darley; Michael Flood; Jeffrey Wear; Bernadette Calderon; Matthew Gorrington; Xiaona Li. The fate of rare earth elements in post-fire soils in the Pocono Mountains, Pennsylvania (USA). Session SSS5.9 – Effects of Wildfires and Pyrogenic Carbon on Soil Functioning and Organic Matter Dynamics. (Oral presentation.) European Geoscience Union General Assembly 2021 (vEGU21), 19-30 April.
- 2020 Caldron, Bernadette; **Gregory Pope**; Joshua C. Galster; Jennifer Callanan Reynard. Impacts of forest fire on stream sediment: A chemical analysis of the 16-Mile Fire in Delaware State Forest, Pennsylvania, USA. Technical Session T134 – Fluvial Geomorphic Interactions between Water, Sediment and Biota II. (Oral presentation.) GSA 2020 Connects Online, 26-30 October.

*Geological Society of America Abstracts with Programs*, v. 52 (6), 2020,  
doi:10.1130/abs/2020AM-356059 .

- 2020 **Pope, Gregory A.** The use of Green Pond Conglomerate as Building Stone in Morris County, New Jersey. *AAG Middle States Division Annual Meeting, October 16-17, 2020*, virtually hosted by Hofstra University.
- 2019 Calderon, Bernadette; **Gregory A. Pope**; Jennifer Callanan; Xiaona Li; Joshua Galster. Impacts of forest fire on stream sediment: A chemical analysis of the 16 Mile Fire in Delaware State Forest, Pennsylvania, USA. *AAG Middle States Division Annual Meeting, October 18-29, 2019, Kutztown University, Pennsylvania*. Poster. (Program and abstracts online, <http://msaag.aag.org/wp-content/uploads/2020/01/MSAAG2019-Final-Program.pdf>).
- 2019 Figueroa, Anastasia; **Gregory A. Pope**; Michael Kruge. Relation between black carbon sediment deposition and anthropogenic related organic and inorganic contaminants in an urban waterway using a multi-tiered geochemical approach. *AAG Middle States Division Annual Meeting, October 18-29, 2019, Kutztown University, Pennsylvania*. Poster. (Program and abstracts online, <http://msaag.aag.org/wp-content/uploads/2020/01/MSAAG2019-Final-Program.pdf>).
- 2019 Flood, Michael; **Gregory Pope**; and Jennifer Callanan. Chemistry of species specific wood ash: A critical component of rapid biogeochemical cycling in a forest ecosystem. *Fire in Eastern Oak Forests Conference, July 23-25, 2019, State College, Pennsylvania*. Poster.
- 2019 Darley, Jason S.; **Gregory A. Pope**; Jennifer R. Callanan; Anthony Doviak; Xiaona Li; and Matthew Hazen. Fire signatures in the soil: Impacts on soil chemistry at the 16-Mile Fire, Delaware State Forest. *Fire in Eastern Oak Forests Conference, July 23-25, 2019, State College, Pennsylvania*. Poster.
- 2019 **Pope, Gregory A.**; Jennifer R. Callanan; Michael Flood; Bernadette Calderon; Jason Darley. Fire as a conditioner in the soil + regolith “critical zone”. *Association of American Geographers Annual Meeting, Washington, DC, April 3-7, 2019*. Special illustrated paper session, *People and Fire*, Thursday, April 4. Poster. (Abstracts online.)
- 2019 Flood, Michael; **Gregory Pope**; Jennifer Callanan; Xiaona Li; Joshua Galster. Elemental analysis of species specific forest fire ash: A consideration for soil formation and forest succession in a mixed hardwood forest of northern New Jersey. *Association of American Geographers Annual Meeting, Washington, DC, April 3-7, 2019*. Special illustrated paper session, *People and Fire*, Thursday, April 4. Poster. (Abstracts online).
- 2019 Callanan, Jennifer R.; Jeremy Scott; Jonathan Harris; Ryan Wizner; **Gregory Pope**; and Matthew Hazen. Two year progression of soil chemical changes as a result of the 16 Mile Fire, Delaware State Forest, PA. Geological Society of American Northeast Sectional, 54<sup>th</sup> Annual Meeting, March 17, 2019. Poster. *Geological Society of America Abstracts with Programs*. doi: 10.1130/abs/2019NE-328013
- 2018 Flood, Michael; **Greg Pope**; Jennifer Callanan. Chemical analysis of species specific forest fire ash: a factor on soil formation and ecological succession for a northern New Jersey mixed hardwood forest. *AAG Middle States Division Annual Meeting, October 16-17, 2018, Montclair, New Jersey*. Poster. (Program abstracts, p. 56, <https://msaag.aag.org/wp-content/uploads/2019/02/MSAAG2018-Final-Program.pdf>).
- 2018 **Pope, Gregory A.**; Joseph P. Hayes; Dawn Marie Hayes. The condition of cultural stones in Norman Sicily, ca. 1061-1194. *Association of American Geographers Annual Meeting, Boston*,



- Massachusetts, April 10-14, 2018*. Oral presentation. Special paper session, *Convergences in Geospatial, Digital, and Geoarchaeological History*, Tuesday, April 11. (Abstracts online).
- 2018 **Pope, Gregory A.**; Jason S. Darley; Jennifer R. Callanan; and Matthew Hazen. Trace element fingerprints of wildfire in the pedosphere: Results from the 16-Mile Fire, Pennsylvania. Geological Society of America Northeast Section, 53<sup>rd</sup> Annual Meeting, Burlington, Vermont, March 18-20. Poster. *Geological Society of America Abstracts with Programs*. Vol. 50, No. 2, doi: 10.1130/abs/2018NE-311352
- 2018 Callanan, Jennifer R.; Jonathan Harris; Jeremy Scott; Allison DellaBella; **Gregory A. Pope**; Matthew Hazen; and Michael DaSilva. Investigation of soil chemistry one year after the 16-Mile Fire, Delaware State Forest, PA. Geological Society of America Northeast Section, 53<sup>rd</sup> Annual Meeting, Burlington, Vermont, March 18-20. (Poster) *Geological Society of America Abstracts with Programs*. Vol. 50, No. 2, doi: 10.1130/abs/2018NE-311014
- 2017 **Pope, Gregory A.**; Jason S. Darley; and Jennifer R. Callanan. Is there a chemical signature for wildfire-impacted soils? *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 5-9, 2017*. Special illustrated paper session, *Pyrogeography II: Pedosphere and Hydrosphere*, Thursday April 6. (Abstracts online). Poster.
- 2017 Callanan, Jennifer R.; Dennis Grune; Katherin Espinal; Mariola Lach; **Gregory Pope**; Matthew Hazen; and Michael DaSilva. Impacts to surface soil as a result of the 16 Mile Fire, Cresco, PA, USA. *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 5-9, 2017*. Special illustrated paper session, *Pyrogeography II: Pedosphere and Hydrosphere*, Thursday April 6. (Abstracts online). Poster.
- 2017 Darley, Jason Scott; **Greg Pope**; Jennifer Callanan; and Matthew Hazen. Watershed-scale forest fire impacts on soil and water chemistry: A case study in Delaware State Forest, Pennsylvania, USA. *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 5-9, 2017*. Special illustrated paper session, *Pyrogeography II: Pedosphere and Hydrosphere*, Thursday April 6. (Abstracts online). Poster.
- 2017 Espinal, K.; J. Callanan; D. Grune; M. Lach; **G. Pope**; M. Hazen; M. DaSilva. Assessment of water chemistry of Bushkill Creek following the 16 Mile Fire, Cresco, PA, USA. *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 5-9, 2017*. Special illustrated paper session, *Pyrogeography II: Pedosphere and Hydrosphere*, Thursday April 6. (Abstracts online). Poster.
- 2017 Fernandez, Adam; Michael A. Kruge; **Gregory A. Pope**; Matthew L. Gorrington; Xiaona Li; Sandra Passchier. Mineral and bioclimatic factors controlling soil black carbon sequestration potential along an elevational gradient in the White Mountain National Forest of New Hampshire. *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 5-9, 2017*. Special illustrated paper session, *Pyrogeography II: Pedosphere and Hydrosphere*, Thursday April 6. (Abstracts online). Poster.
- 2016 **Pope, Gregory A.**; Matthew Gorrington; Tanya M. Blacic; Joshua C. Galster; and William H. Thomas. Revival of the geology field camp experience at Montclair State University. *Geological Society of America Annual Meeting, 24-28 September, Denver, CO*. Session No. 66, T73, Bringing Outside In: Incorporating Field Experiences and Project-Based Learning into the Geoscience Classroom. (Posters). *Geological Society of America Abstracts with Programs*. Vol. 48, No. 7, doi: 10.1130/abs/2016AM-287556
- 2016 Chatr Aryamontri, Deborah; **Gregory A. Pope**; Matthew Gorrington; Laying Wu; and Nicolas Zarro. Archaeometric investigation of the glass *tesserae* from the ‘Villa degli Antonini’ at the

- Ager Lanuvinus. *International Symposium on Archaeometry (ISA), 15-21 May, 2016, Kalamata, Greece*. Poster.
- 2016 **Pope, Gregory A.**; Deborah Chatr Aryamontri; and Timothy Renner. Many footsteps: Assessing the durability of historic paving stones with geomorphic methods. *Association of American Geographers Annual Meeting, San Francisco, California, March 29-April 2, 2016*. Special Oral Paper Session, *Geography of Historic Conservation*, Wednesday, March 30. (Abstracts online). Oral paper.
- 2015 **Pope, Gregory A.**; Joshua Galster; Tanya Blacic; Randal FitzGerald; Matthew Gorrington; William Thomas; and Meiyin Wu. Geomorphology research vignettes from the New Jersey School of Conservation. *AAG Middle States Division Annual Meeting, October 2-3, 2015, Binghamton, New York* (Program abstracts, p. 18). Poster.
- 2015 Chatr Aryamontri, Deborah; **Gregory A. Pope**; Laying Wu; Matthew Gorrington; Nicolas Zarro. Archaeometric analysis of glass tesserae from the Imperial Roman ‘Villa degli Antonini’ in the Alban Hills. *TECHNART 2015 – Catania (Italy), April 27-30, 2015*. (Book of Abstracts p. P1-126). Poster.
- 2015 **Pope, Gregory A.**; Joshua C. Galster; Tanya M. Blacic; Matthew L. Gorrington; David C. Sharpe; Mariya Guzner; Jeffrey M. Lenik; and Erik S. Strandkov. Relict landslide features on late-Pleistocene fluvial terraces, Flat Brook, Northwest New Jersey. *Association of American Geographers Annual Meeting, Chicago, Illinois, April 21-25, 2015*. Physical Geography Poster Session, *Symposium on Physical Geography*, Thursday, April 23. (Abstracts online). Poster.
- 2015 Maynard, Rachel; Pankaj Lal; **Greg Pope**; Pralhad Burlin; and Bernabas Wolde. Relationship between the contaminated area of Liberty State Park, economic value of environmental amenities and impact on surrounding real estate areas. *Association of American Geographers Annual Meeting, Chicago, Illinois, April 21-25, 2015*. Special Paper Session, *Environment, Economy and Energy: Value of Regional and Local Solutions to Global Challenges* (Wednesday April 22), Pankaj Lal, organizer. (Abstracts online). Oral paper.
- 2015 **Pope, Gregory A.**; Joshua C. Galster; Tanya M. Blacic; Matthew Gorrington; and David Sharpe. A relict, late-Wisconsinan, terrace-slope landslide feature, Flat Brook Valley, Sussex County, New Jersey, USA. *Geological Society of America Northeast Section, 50<sup>th</sup> Annual Meeting, 23-25 March, Bretton Woods, NH*. Session No. 55, T8 Advances in Pleistocene Geology: Northeastern U.S. and Eastern Canada (Posters). *Geological Society of America Abstracts with Programs*. Vol. 47, No. 3, p.113.
- 2014 **Pope, Gregory A.**; Timothy Renner; Carla Mattei; and Deborah Chatr Aryamontri. Cultural stone integrity and site formation processes at the “Villa of the Antonines” Archaeology Project. *Association of American Geographers Middle States Division Annual Meeting; October 24-25, 2014, York, Pennsylvania*. (Abstracts p. 34). Oral paper.
- 2014 Maynard, Rachel; Pankaj Lal; **Greg Pope**; Pralhad Burlin; and Bernabas Wolde. Assessing the relationship between the contaminated area of Liberty State Park and economic value of surrounding real estate areas. *Association of American Geographers Middle States Division Annual Meeting, October 24-25, 2014, York, Pennsylvania*. (Abstracts addendum) Oral paper.
- 2014 **Pope, Gregory A.**; Deborah Chatr Aryamontri; Laying Wu; Timothy Renner. Deterioration of stone and mineral materials from the Roman Imperial Villa of the Antonines at ancient Lanuvium. *XII International IAEG Congress, Torino, September 15<sup>th</sup>-19<sup>th</sup>, 2014*. [abstracts online]. Oral paper.
- 2014 Chatr Aryamontri, Deborah; **Gregory A. Pope**; Laying Wu. Glass tesserae from the ‘Villa of the Antonines’ at the Ager Lanuvinus. Chemical composition, technology of glass production,

- and state of deterioration. *40th International Symposium on Archaeometry, ISA 2014, May 19-23, 2014, Los Angeles, California. Program and Abstract* p. 121. Poster.
- 2014 **Pope, Gregory A.**; Deborah Chatr Aryamontri; Laying Wu; and Timothy Renner. Glass tile composition and deterioration in the soil, Roman Imperial Villa of the Antonines. *Association of American Geographers Annual Meeting, Tampa, Florida, April 8-12*. Special session, *Geoarchaeology and Stone Assessment*, Casey Allen, Gregory Pope, and Timothy Beach, organizers. (*Abstracts online*). Oral paper.
- 2014 **Pope, Gregory A.** The view of a mixed department at a mid-sized research university. *Association of American Geographers Annual Meeting, Tampa, Florida, April 8-12*. Panel session, “Curricular Redesign, Innovation, and Action for Student Success in Changing Times”, Dawn Hawley, organizer. Oral panel presentation.
- 2014 Guzner, Mariya; Matthew McNicholas; Benjamin N. Muller; Kristen Balschunat; Joshua C. Galster; **Gregory Pope**; and Meiyin S. Wu. The impact of bridges and urban development on stream geomorphology. *Geological Society of America Northeast Section, 49<sup>th</sup> Annual Meeting, 23-25 March, Lancaster, PA. Geological Society of America Abstracts with Programs*. Vol. 46, No. 2, p.46. Poster.
- 2013 Guzner, Mariya; Matthew McNicholas; Benjamin N. Muller; Kristen Balschunat; Joshua C. Galster; **Gregory Pope**; and Meiyin S. Wu. The impact of land use on stream geomorphology. GSA Annual Meeting, Denver, Colorado, Oct. 27-30. *Geological Society of America Abstracts with Programs*. Vol. 45, No. 7, p.378. Poster.
- 2013 Agrios, Liana; Miguel Loubriel; Salvatore Zerbo III; **Gregory A. Pope**; Joshua C. Galster; and Meiyin S. Wu. Field and laboratory methods used to assess late Quaternary pedogenesis, northwest New Jersey, USA. *Geological Society of America Abstracts with Programs*. Vol. 45, No. 7, p.119. Poster.
- 2013 **Pope, Gregory A.**, and Faith K. Justus. A comparison of windthrow soil disturbance from inland storms, northern New Jersey. *The 44<sup>th</sup> Annual Binghamton Geomorphology Symposium, Coastal Geomorphology and Restoration, 19-20 October, 2013, Newark, New Jersey. (Program and Abstracts p. 26.)* Poster.
- 2013 **Pope, Gregory A.**; Joshua C. Galster; Anthony J. Torres; Lizzie M. Starks.; Kelly E. Palmer; Huan E. Feng; and Meiyin Wu. Sediment sourcing in Northwest New Jersey: Legacies of forest, farming, industry, and suburbanization. *Association of American Geographers Annual Meeting, Los Angeles, California, April 9-13*. Special session, *Legacy Sediment in the New World* Alan James and Scott Lecce, organizers (*Abstracts online*). Oral paper.
- 2013 Palmer, Kelly E.; Joshua C. Galster; Mary Birrer; Steven Espinosa; Huan Feng; **Gregory Pope**; and Meiyin Wu. Land use influences on RGA scores and river channel widths in Northern New Jersey. Session No. T6. “State and Fate of Urban Watersheds in the Northeast (Posters)”. *Northeastern Section – 48<sup>th</sup> Annual Meeting (18-20 March, 2013), Geological Society of America, Bretton Woods, New Hampshire. Geological Society of America. (Abstracts with Programs*. Vol. 45, No. 1). Poster.
- 2012 **Pope, Gregory A.**; Lizzie M. Starks; Anthony J. Torres; Joshua C. Galster; Huan E. Feng; and Meiyin Wu. Origin of stream bed sediments in northwest New Jersey: Factors of land use and source determined by trace element analysis. *2012 AGU Fall Meeting which is 3-7 December 2012, San Francisco, California*. Session: Undergraduate Geoscience Research Highlights Posters.
- 2012 **Pope, Gregory A.**; Jennifer Callanan; Matthew L. Gorring. A reassessment of soil chemistry and pedogenesis following intense forest fires. *2012 Annual Meeting, Middle States Division of*

- the Association of American Geographers, November 2-3, 2012, Shippensburg University, Shippensburg, Pennsylvania. Oral paper.*
- 2012 **Pope, G.A.;** J. C. Galster; A. J. Torres; L. M. Starks; H. Feng; M. Wu. Trace element analysis of stream and watershed sediments relate to stream quality indicators, Northwest New Jersey. *Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.* Poster.
- 2012 Mason, D.; E. Parker; M. Wu; H. Feng; J. Galster; **G. Pope.** Effects of Land Use on the Diversity, Productivity, and Presence of Invasive Species in Aquatic Plant Communities. *Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.* Poster.
- 2012 Mirrer,, L. K.; N. F. Pelak; H. Feng; M. Wu; J. C. Galster; **G. A. Pope.** Water Quality Monitoring and Assessment in Northern New Jersey Watersheds with Different Land Use Settings. *Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.* Poster.
- 2012 **Pope, Gregory;** J. Galster; H. Feng; E. Noonan; K. Jones; C. Connalon; and D. Flores (2012). Characterization of Lake Wapalanne (New Jersey) sediment chronology with recent environmental change. *57<sup>th</sup> Annual New Jersey Academy of Science Meeting, Seton Hall University, West Orange, New Jersey, April 21, 2012.* Poster.
- 2012 **Pope, Gregory A.** Mega-geomorphology and reconciliation of regional weathering assumptions. *Association of American Geographers Annual Meeting, New York City, New York, February 24-28, 2012.* Special session, Weathering, Regolith, and Soil Dynamics, Gregory Pope, organizer (*Abstracts online*). Oral paper.
- 2011 **Pope, Gregory A.** Early season heat before first leaves: Implications for a simulated urban heat island. *2011 Annual Meeting, Middle States Division of the Association of American Geographers, November 11-12, 2011, Kean University, Elizabeth, New Jersey. (Program abstract, p. 21).* Oral paper.
- 2011 **Pope, Gregory A.,** and Pobanz, Samuel P. Weathering geomorphology's black box: Integrating region-scale factors into weathering models with GIS. *Association of American Geographers Annual Meeting, Seattle, Washington, April 12-18, 2011.* Special session: Frontiers in Weathering Geomorphology, Gregory Pope, organizer (*Abstracts CD-ROM and online*). Oral paper.
- 2010 Pobanz, Sam, and **Gregory Pope.** Geospatial investigation into factors of rock weathering in the contiguous United States (poster). *2010 Annual Meeting, Middle States Division of the Association of American Geographers, October 22-23, United States Military Academy, West Point, New York.* Poster.
- 2010 **Pope, Gregory A.;** Mary Egan; Michael J. Kruge; and Sandra Passchier. Environmental change evident by sediment core, Lake Wapalanne, northwest New Jersey. *Association of American Geographers Annual Meeting, Washington, DC, April 13-18, 2010.* Special session, Geosystems of Small Appalachian Lake, Gregory Pope, organizer. (*Abstracts CD-ROM and online*). Oral paper.
- 2009 **Pope, Gregory A.;** Andrew J. Temples; Thomas J. Glynn; Joanne C. Kornoelje; Sean I. McLearie, and Jahalla R. Simmons. The nature of certain boulder-rich deposits in the upper Big Flat Brook drainage, Sussex County, New Jersey. *2009 Annual Meeting, Middle States Division of the Association of American Geographers, November 6-7, State University of New York at New Paltz, New Paltz, New York.* Oral paper.

- 2009 **Pope, Gregory A.**; Mark Demitroff; Jennifer LaPoma; and Jennifer Callanan. Sand Grain Morphologies Explain Late Pleistocene Periglacial Soil Environments of the Pine Barrens, New Jersey, USA. *Association of American Geographers Annual Meeting, Las Vegas, Nevada, March 22-27, 2009. (Abstracts CD-ROM and online)*. Oral paper.
- 2009 LaPoma, Jennifer; Mark Demitroff; **Gregory Pope**; and Jennifer Callanan. Sedimentary Analysis of Tentative Wind Steaks from the Pinelands National Reserve in Southern New Jersey. *Association of American Geographers Annual Meeting, Las Vegas, Nevada, March 22-27, 2009. (Abstracts CD-ROM and online)*. Oral paper.
- 2009 Callanan, Jennifer; **Gregory Pope**; Matthew Gorrington; Walter Bien; Andrew McDougall; and Jennifer LaPoma. Long-term implications of forest fires on soil chemical properties and mineral alterations in the New Jersey Pine Barrens. *Association of American Geographers Annual Meeting, Las Vegas, Nevada, March 22-27, 2009. (Abstracts CD-ROM and online)*. Oral paper.
- 2009 Demitroff, Mark; Hugh French; Jan Gozdzik; **Greg Pope**; and Ben DeJong. Wisconsinan eolian activity and paleohydrology, New Jersey Pine Barrens (39°N), Eastern U.S.A. *Association of American Geographers Annual Meeting, Las Vegas, Nevada, March 22-27, 2009. (Abstracts CD-ROM and online)*. Oral paper.
- 2008 **Pope, Gregory A.**, and Patricia J. Beyer. The Rock Art Susceptibility Index applied to stone conservation. *2008 Annual Meeting, Middle States Division of the Association of American Geographers, November 7-8, Millersville University, Millersville, Pennsylvania*. Oral paper.
- 2008 **Pope, Gregory A.** Scale in weathering process and form: An environmental energetics theoretical approach. *Association of American Geographers Annual Meeting, Boston, Massachusetts, April 15-19. (Abstracts CD-ROM)*. Oral paper.
- 2007 **Pope, Gregory A.**, and Jennifer L. LaPoma. An analysis of topsoil quality in urban curbside landscaping. *2007 Annual Meeting, Middle States Division of the Association of American Geographers, November 16-17, Reading, Pennsylvania*. Oral paper..
- 2007 **Pope, Gregory A.**; Jennifer R. Reynard; Walter Bien; Matthew L. Gorrington. Fires and pedogenesis in the New Jersey Pine Barrens: Preliminary results. *Association of American Geographers Annual Meeting, San Francisco, California, April 17-21 (Abstracts CD-ROM)*. Oral paper.
- 2006 Reynard, Jennifer R.; **Gregory A. Pope**; Matthew L. Gorrington; and Walter F Bien. Forest fire's role as a catalyst for clay mineral alterations in soil and its effect on cation exchange capacity (poster). *Geological Society of America 2006 Annual Meeting, October 22-25, Philadelphia, Pennsylvania. (Abstracts CD-ROM)*. Poster.
- 2006 **Pope, Gregory A.** The geography of weathering revisited: An "energetics" perspective for rock decay and soil formation. *2006 Annual Meeting, Middle States Division, Association of American Geographers, Oct. 13-14, New Brunswick, New Jersey. (Abstracts and Program.)* Oral paper.
- 2006 Reynard, Jennifer R.; **Gregory A. Pope**; and Walter F Bien. Forest fire as a unifying soil weathering agent in differing ecosystems. *Ecological Society of America Mid-Atlantic Ecology Conference, April 8, 2006, New Jersey School of Conservation, Branchville, New Jersey*. Oral paper.
- 2006 **Pope, Gregory A.** Cartographic Representation of Hurricane Threat on Coastal Populations. *In Special Paper Session: Weather and Society. Association of American Geographers Annual Meeting, Chicago, Illinois, March 7-11, 2006 (Abstracts CD-ROM)*. Oral paper.

- 2005 **Pope, Gregory A.**; Walter Bien; Matthew Gorrington; Patricia Beyer; and Mark Demitroff. The New Jersey Pine Barrens: A Proposed Site for the Critical Zone Exploration Network (poster). *Frontiers in Exploration of the Critical Zone, October 24-26, Newark, Delaware. (Workshop program, p. 102-103).*
- 2005 **Pope, Gregory A.**; Alice Turkington; Thomas Paradise; and Jacqueline Willis. The Urban Critical Zone: A CZEN Site Proposal (poster). *Frontiers in Exploration of the Critical Zone, October 24-26, Newark, Delaware. (Workshop program, p. 104-105.)*
- 2005 **Pope, Gregory A.**; Jennifer R. Reynard; and Matthew L. Gorrington. Hot fires and pedogenesis: fleeting factor or long-term conditioner in central Colorado? In Special Paper Session, Geosystems, Ecosystems, and Wildfire, co-organized with John Kupfer and Steve Yool, *Association of American Geographers Annual Meeting, Denver, Colorado, April 5-9, 2005 (Abstracts CD-ROM)*. Oral paper.
- 2005 **Pope, Gregory A.**; John Kupfer; and Steve Yool (co-chairs and co-organizers). Geosystems, Ecosystems, and Wildfires. (Five special paper sessions.) *Association of American Geographers Annual Meeting, Denver, Colorado, April 5-9, 2005.*
- 2004 Reynard, Jennifer R.; **Gregory A. Pope**; and Matthew L. Gorrington. Forest-fire enhanced modification of clay minerals in soils in and around the Hayman (2002); Colorado, burn. *Geological Society of America 2004 Annual Meeting, November 7-10, 2004, Denver, Colorado. (GSA Abstracts with Programs)*. Poster.
- 2004 Lincoln, Jonathan M.; Matthew Gorrington; and **Gregory Pope**. Challenges for undergraduate field experience at a suburban campus. In Special Paper Session: Improving Delivery in Geoscience Education (IDIG): A Session Celebrating Dorothy LaLonde Stout. *Geological Society of America 2004 Annual Meeting; November 7-10, 2004, Denver, Colorado. (GSA Abstracts with Programs)*. Oral paper.
- 2004 **Pope, Gregory A.**, Jennifer R. Reynard, B. Priscilla Neus, and Matthew L. Gorrington. Thermal weathering and soils in a post-fire ecosystem (poster). *35<sup>th</sup> Annual Binghamton Geomorphology Symposium: Weathering and Landscape Evolution, University of Kentucky, October 1-3, 2004 (Program, p. 24)*. INVITED. Poster.
- 2004 Reynard, Jennifer; **Gregory A. Pope**; Matthew L. Gorrington; and Anne Ajamian. Short-term and long-term effects of high intensity forest fires on soil mineralogy. *Association of American Geographers Centennial Meeting, Philadelphia, Pennsylvania, April 14-19, 2004 (Abstracts, p. 373)*. Oral paper.
- 2003 **Pope, Gregory A.** Setting erosion rates on a new pedestal: Perched rocks. *2003 Annual Meeting, Middle States Division, Association of American Geographers, Oct. 31-Nov. 1, Albany, New York, (abstracts p. 20)*. Oral paper.
- 2003 **Pope, Gregory A.**; Zhaodong Feng; Matthew Gorrington; and Carolyn Olson. The S1 Paleosol Environmental Record Interpreted through Soil Development and Weathering Indices (poster). *INQUA XVI, July 23-31, 2003, Reno, Nevada.*
- 2003 Feng, Z.D.; **G.A. Pope**; C.G. Olson; H.B. Wang. Geographic differentiation of the last interglacial paleosol S1 in the Chinese Loess Plateau (poster). *INQUA XVI, July 23-31, 2003, Reno, Nevada.* Poster.
- 2003 Feng; H.; **G.A. Pope**; Z.-D. Feng; C.E. Cifelli; A. Lanzotti, and K.W. Jones. Mineralogical and structural study of the S1 loess/paleosol composition of the Chinese Loess Plateau using XRD and XANES based on synchrotron technologies (poster). *INQUA XVI, July 23-31, 2003, Reno, Nevada.*

- 2003 **Pope, Gregory A.**; Steven J. Gordon; B. Priscilla Neus. Extreme temperature impacts on soil weathering environments: Preliminary results from Hayman Fire (Summer 2002), Colorado. *Association of American Geographers 99<sup>th</sup> Annual Meeting, New Orleans, Louisiana, (Abstracts, pp. 305).* Oral paper.
- 2003 **Pope, Gregory A.**, and Belkys Melendez. Acid precipitation in Hudson/Passaic/Raritan Watersheds: Metro and marine influences. *Newark Bay-Raritan Bay-Sandy Hook Workshop, Fort Hancock, NJ, January, 2003.* Oral paper.
- 2002 **Pope, Gregory A.**; William D. Solecki; Cynthia Rosenzweig; Vera Lazar; and Maria Clark. Transects and textures in the urban heat island: Camden, New Jersey and environs. *2002 Annual Meeting, Middle States Division, Association of American Geographers, Oct. 11-12, Upper Montclair, New Jersey (Abstracts p. 13).* Oral paper.
- 2002 **Pope, Gregory A.** The weathering boundary layer: revisiting the conceptual model through stone conservation. *Geological Society of America 2002 Annual Meeting, November, Denver, Colorado. (GSA Abstracts with Programs Vol. 34, No. 6.)* Oral paper.
- 2002 **Pope, Gregory A.**; Zhaodong Feng; Matthew L. Gorrington; Renata J. Bailey; and Takeshi Nakajuku. Weathering indexes applied to Chinese loess paleosols., *Association of American Geographers 98<sup>th</sup> Annual Meeting, 19-23 March, 2002, Los Angeles, California, (Abstracts CD-ROM).* Oral paper.
- 2002 Solecki, William D.; Cynthia Rosenzweig; **Gregory Pope**; Maria Clark; Vera Lazar; and Richard Goldberg. Current and future UHI effect in the greater Newark region and potential adaptations. *Urban Heat Island Summit, Toronto, Ontario, Canada, May 1-3, 2002.* Oral paper.
- 2001 **Pope, Gregory A.**; John Stavash; and Jean Walker. Correlation of Acid Wet Deposition with Trends in Stone Deterioration at the Local Scale. In R. Prikryl and H.A. Viles (eds.) *Stone Weathering and Atmospheric Pollution Network; Abstracts International Conference, May 7-11, Prachov Rocks, Czech Republic. (Acta Universitatis Carolinae Geologica v. 45, no. 1, p. 27.)* Oral paper.
- 2001 Feng, Z.-D.; F.-H. Chen; Z.-W. Zhang; Y.-Z. Ma; H.-B. Wang; C.-B. An; W.-G. Wang; Y.-M. Chen; C.-Y. Zhao; **G.A. Pope**; and B. Paradiso. In W.W.-S. Yim (ed.), *Environmental reconstruction of northwestern China during Marine Isotope Stage 5, 3, and 1: progress and problems. Fifth International Conference on the Cenozoic Evolution of the Asia-Pacific Environment, October 29-November 1, 2001, (Abstracts. Dept. of Earth Sciences and Center for Asian Studies, the University of Hong Kong, Hong Kong SAR, China, p. 18.)* Oral paper.
- 2001 D'Alessandro, Matt; Mike DaSilva; Austin Harclerode; Yakeen Kelly; Mike Mazanec; Belkys Melendez; Sarita Amy Morse; Takeshi Nakajuku; George Nikolis; Kesha Patel; Jennifer Reynard; Brett Sieradzki; Carolin Stroehle; and **Gregory A. Pope**. A re-interpretation of Watchung Mountain wind and water gaps, northern New Jersey (poster). *Geological Society of America Northeastern Section, 36<sup>th</sup> Annual Meeting, Burlington, Vermont, March 12-14 (Abstracts)*
- 2001 **Pope, Gregory A.** "Millennium Cookies" to measure acid-deposition and weathering: implementation, outreach, and education. *Abstracts, Association of American Geographers 97<sup>th</sup> Annual Meeting, February 27-March 3, 2001, New York, New York, (Abstracts, CD-ROM).* Oral paper.
- 2000 **Pope, Gregory A.** Weathering of megaliths – evidence for thresholds and non-linear rates. *Weathering 2000 Conference, Belfast, Northern Ireland, June 26-30 (Abstracts).* Oral paper.

- 2000 **Pope, Gregory A.** Dating methods for rock art: the impacts of weathering. *American Rock Art Research Association, 27<sup>th</sup> Annual Rock Art Conference, Phoenix, Arizona, May 26-29, 2000* (Abstracts). Oral paper.
- 2000 **Pope, Gregory A.** Exposure as a weathering factor: Evidence from cultural stone in Portugal (poster). *Geological Society of America Northeastern Section, 35<sup>th</sup> Annual Meeting, New Brunswick, New Jersey, March 13-15, (GSA Abstracts With Programs v. 21(1): p.A-66)*. Poster.
- 2000 **Pope, Gregory A.** Corestones and Cromleques: The weathered megaliths of southeast Portugal. , *Association of American Geographers 96<sup>th</sup> Annual Meeting, 4-8 April, 2000, Pittsburgh, Pennsylvania, (Abstracts, CD-ROM)*. Oral paper.
- 1999 **Pope, Gregory A.;** Thomas C. Meierding; and Thomas R. Paradise. A geomorphic approach to weathering studies in cultural resource management. *30<sup>th</sup> Annual Binghamton Geomorphology Symposium, Geomorphology in the Public Eye, November 12-14, 1999, SUNY-Binghamton, New York* (Abstracts, p. 32-33). INVITED. Oral paper.
- 1999 **Pope, Gregory A.,** and Ruth Rubenstein. A waste of time? Prehistoric sewage in the American Southwest. *Association of American Geographers 95<sup>th</sup> Annual Meeting, 23-27 March, Honolulu, Hawaii, (Abstracts CD-ROM)*. Oral paper.
- 1999 Sato, Yoko; and **Gregory Pope.** Remote sensing for rock weathering observation and monitoring. *Association of American Geographers 95<sup>th</sup> Annual Meeting, 23-27 March, Honolulu, Hawaii, (Abstracts CD-ROM)*. Oral paper.
- 1998 **Pope, Gregory A.;** Gloria Brown; and Deniz Altin. Calibrated weathering rates from archaeological and historical rock surfaces in Portugal. *International Geographical Union Regional Conference 98, "The Atlantic: Past, Present, and Future", August 30-September 2, Lisbon Portugal. (Abstracts p. 30)* Oral paper.
- 1998 **Pope, Gregory A.** Weathering of granitic structures: 5000 years of exposure in Portugal. *ASMOSIA 1998, Fifth International Conference, June 11-15, Museum of Fine Arts, Boston, Massachusetts* (Abstracts). Oral paper.
- 1998 **Pope, Gregory A.** Weathering of rock engravings—implications for archaeological analysis. *Abstracts, Association of American Geographers 94<sup>th</sup> Annual Meeting, Boston, Massachusetts* (Abstracts CD-ROM). Oral paper.
- 1998 Feng, Z.D.; Chen, F.H.; and **Pope, G.A.** Problems of magnetic susceptibility signature in Chinese loess. *International Symposium and Field Workshop on Paleosols and Climatic Change, July 27-August 7, 1998, Lanzhou University, Lanzhou, P.R. China.* Oral paper.
- 1997 **Pope, Gregory A.** Issues of scale in weathering. *Association of American Geographers 93<sup>rd</sup> Annual Meeting, 1-5 April 1997, Fort Worth, Texas, (Abstracts, p. 211)*. Oral paper.
- 1997 **Pope, Gregory A.** Natural weathering of petroglyphs: a collaboration between geomorphology and archaeology. Middle States Division/Association of American Geographers and Canadian Association of Geographers Ontario Division Joint Meeting, State University College at Buffalo, October 18, 1997. (Open conference paper.)
- 1996 **Pope, Gregory A.** Anthroweathering: theoretical framework and case studies for human-impacted weathering. *Association of American Geographers 92<sup>nd</sup> Annual Meeting, 9-13 April, 1996, Charlotte, North Carolina, (Abstracts p. 238)*. Oral paper.
- 1995 **Pope, Gregory A.** Internal weathering in quartz grains. *Association of American Geographers 91<sup>st</sup> Annual Meeting, 11-18 March 1995, Chicago, Illinois, (Abstracts, p. 248)*. Oral paper.



- 1994 **Pope, Gregory A.** A geographical analysis of quartz weathering. *Association of American Geographers 90<sup>th</sup> Annual Meeting, San Francisco, California, (Abstracts p. 303).* Oral paper.
- 1993 **Pope, Gregory A.,** and Ronald I. Dorn. Redefining a conceptual model for desert weathering. *Abstracts, Association of American Geographers 89<sup>th</sup> Annual Meeting, 6-10 April, 1993, Atlanta, Georgia (Abstracts pp. 192-193).* Oral paper.
- 1992 **Pope, Gregory A.** Quartz decrystallization: submicron-scale weathering in soils of the Basin and Range Province, North America. *1992 International Geographic Congress, Washington, D.C. (Technical Program Abstracts, p. 504).* Oral paper.
- 1992 **Pope, Gregory A.** Structure and scale invariance in weathering. *Association of American Geographers 88<sup>th</sup> Annual Meeting, 18-22 April, San Diego, California, (Abstracts, p. 194).* Oral paper.
- 1992 **Pope, Gregory A.** Scale in weathering. *Association of Pacific Coast Geographers Annual Meeting, Tucson, Arizona, 1992 (Yearbook of the Association of Pacific Coast Geographers, v. 54, p. 174).* Oral paper.
- 1992 Wasklewicz, T.; S. Clark; J. Hetrick; **G. Pope**; T Liu; and R. Dorn. An exception to Goldich's Mineral Stability Series. *Association of Pacific Coast Geographers Annual Meeting, Tucson, Arizona, 1992 (Yearbook of the Association of Pacific Coast Geographers, v. 54, p. 184).* Oral paper.
- 1991 **Pope, Gregory A.;** Renu Sharma; Farhad Shaapur; and Ronald I. Dorn. Geographic implications of a surface weathering phenomenon: Quartz decrystallization. *Association of American Geographers 87<sup>th</sup> Annual Meeting, 13-17 April, 1991, Miami, Florida, (Abstracts p. 158).* Oral paper.
- 1991 Dorn, R.; T.; Wasklewicz; S. Clark; J. Hetrick; **G. Pope**; T. Liu, D.; Friend; P. Catanzariti, D.H. Krinsley, and J. Dixon. Olivine does not necessarily weather first. *Geological Society of America Annual Meeting, San Diego, California (GSA Abstracts with Programs, v. 23, no. 5, p. A206).* Oral paper.
- 1990 **Pope, Gregory A. ;** Renu Sharma; Farhad Shaapurand; Ronald I. Dorn. Geographic implications of a surface weathering phenomenon: Quartz decrystallization (poster). *Geological Society of America Penrose Conference; New Methods in Surface Exposure Dating, October, 1990, Mammoth Lakes, California.* INVITED.
- 1990 **Pope, Gregory A.** Quartz hydration as a dating technique for Quaternary landforms: Pine Creek, Eastern Sierra Nevada, California. *Arizona-Nevada Academy of Science Annual Meeting, Las Vegas, Nevada, 1990 (Journal of the Arizona-Nevada Academy of Science, v. 25, p. 26).* Oral paper.

### Videos and online presentation

- 2021 **Pope, Gregory A.** "Dr. Pope's Guide to the Cultural Stone Stability Index (CSSI)". *YouTube* accessed via *The Normal Sicily Project* (Hayes, Dawn Marie and Hayes, Joseph, 2021), retrieved from <http://normansicily.org/en/resources/learn/> .

### Grants and contracts

[external grants appear in boldface type]

- 2019 Separately Budgeted Research Grant, Montclair State University (7/1/2019-6/30/2020), \$4962). “Forest Fires in the Critical Zone”.
- 2019 Summer Grant Proposal Development Grant, Montclair State University (7/1/2019-6/30/2020, \$4000). “Developing an REU/IRES in Cultural Stone Heritage and Sustainability”.
- 2019 National Endowment for Humanities, Humanities Collections and Reference Resources grant (9/1/2019-6/30/2020, \$49,783), “Documenting the Past, Triaging the Present and Assessing the Future: A Prototype for Sicily’s Norman Heritage, ca. 1061–1194”. (Dawn Hayes PI, Gregory Pope co-PI).**
- 2017 PSE&G Sustainability Institute Faculty Research Grant, (7/1/2017, \$10,000). “The Norman Sicily Project”. (Dawn Hayes PI, Gregory Pope and David Sanders, co-PIs.)
- 2016 Global Education Center, Montclair State University. Visiting scholars from University of Salento. (Co-PI with D. Chatr Aryamontri (PI), T. Renner, D. Yu.)
- 2016 To Adam Fernandez (MS in Earth and Environmental Studies candidate). “Mineral factors controlling soil black carbon sequestration potential along an elevational gradient in the Adirondack High Peaks Region of New York”. Margaret and Herman Sokol Faculty/Student Research Award, \$2000. (Adam Fernandez and Gregory Pope).
- 2013 **International Paper Foundation** , (7/1/13, \$1500). “Sustainability information Service at Sprague Library.” Steven Shapiro and Gregory Pope, co-signors.
- 2011-14 **National Science Foundation, Research Experience for Undergraduates** (faculty senior participant, K. Barrett PI, Mei Yin Wu, PI).
- 2010 **National Science Foundation, Earth Sciences Division, Instrumentation and Facilities** (5/1/10-4/30/11, \$28,050, EAR-0948992) “Upgrade of the Optical ICP at Montclair State University.” (M. Gorring, PI, with co-PIs S. Passchier, D. Sarkar, S. Brachfeld, G. Pope.)
- 2008 Small Grants for Interdisciplinary Research, Montclair State University (\$3000, PI). “Establishing a laboratory for Materials Analysis”.
- 2007-9 **National Science Foundation, GK-12 Program** (faculty stipend as participant). “Fellows in the Middle: Partnerships for Inquiry and Interdisciplinary Middle School Science and Mathematics”. (Faculty participant on grant; K. Wolff, M. Munakata, and M. West, PI’s).
- 2006 **American Chemical Society Project SEED** (\$1675, faculty participant). Fellowship for high school student laboratory assistant, awarded directly to the student.
- 2005 **National Science Foundation, Major Research Instrumentation, Earth Sciences Division** (8/15/05-7/31/07, \$197,649, EAR-0521069). “Acquisition of a Vibrating Sample Magnetometer at Montclair State University.” (S. Brachfeld, P.I., with co-P.I.s G. Pope, Z. Feng, M. Gorring, and M. West.)
- 2004 Student Faculty Research Project, Montclair State University (\$1500, PI). “Soil Mineralogy as Impacted by Forest Fires.”
- 2002 **National Science Foundation, Geography Division, Small Grants for Experimental Research** (8/102-7/ 31/03, BCS-0240303, \$17,065). “Forest Fires and Soil Weathering: Do Extreme Wildfire Events Impact the Weathering of Soil Mineral Components?” (G. Pope, PI, with co-PIs B.P. Neus and S. J. Gordon)
- 2002 Summer Grant Proposal Development Award, Montclair State University (\$4000, PI). “Weathering Cookies: Long Term Acid Pollution Monitoring with Educational Outreach” (with Jaclyn Willis).

- 2001 **New Jersey Department of Environmental Protection** (\$20,000, subcontract). Urban heat islands in New Jersey. (W. D. Solecki, P.I.)
- 2000 **National Science Foundation, Geography Division.** (8/1/2000-7/31/2004, BCS-0078557, \$174,198). “Geographic Analysis of the S1 Paleosol, Chinese Loess Plateau” (Z.-D. Feng, PI, G. Pope co-PI).
- 2000 Global Education Center, Montclair State University (\$800, PI). “Presentation of a paper at the Weathering 2000 Conference, Queen’s University, Belfast, Northern Ireland, June 26-30, 2000”.
- 2000 Alumni Association Grant, Montclair State University (\$1500, PI). “Millennium Cookies: A Low-Cost, Long-Term Environmental Monitoring Project”
- 2000 Separately Budgeted Research, Montclair State University (\$1000, PI). “Soil Testing for Human Wastes in Prehistoric Sites in the Southwest US”
- 2000 Student Faculty Research Project, Montclair State University (\$500, PI). “Continued Monitoring of Air Pollution Impact on Urban Structures”.
- 2000 GRIPSAM Grant, Montclair State University (\$2050, PI). “Determining the Age of Paleoalluvium atop the Front Range, Colorado”.
- 1999 **National Science Foundation, (CCLI).** (1/1/2000-12/31/2001, DUE-9952667, \$61,325, co-PI). “Integration of Undergraduate Research Activities in the Geological and Biological Environmental Science Concentration Using an Inductively Coupled Plasma Spectrometer”. (M. Gorrington, P.I., with co-P.I.s G. Pope, J. Lincoln, D. Ophori, and B. Lustigman)
- 1999 Student Faculty Research Project, Montclair State University (\$1485, PI). “Analysis of the Effects of Urban Pollution on Building Stones and Monuments”
- 1998 Global Education Project, Montclair State University (\$2400, PI). “Investigating the Deterioration of Carved Stone in Evora, Portugal”
- 1998 Technology minigrant. Montclair State University (\$1000, co-PI). “Satellite Coverage of New Jersey” [with W. Solecki]
- 1997 Sokol International Graduate Study Award, Montclair State University (\$1000, faculty advisor). “Organic Rock Coatings on Petroglyphs, Foz Coa, Portugal.” (awarded to graduate student Deniz Altin).
- 1997 Separately Budgeted Research (\$2400, PI) and Faculty Scholarship Incentive Program (release time), Montclair State University. “Impacts of Natural Weathering on Petroglyphs”.
- 1996 Global Education Project, Montclair State University (\$2620, PI). “Investigation of Rock Art in Portugal”
- 1992 **National Science Foundation Doctoral Dissertation Improvement Grant** (\$7800, PI). “Geographic Analysis of Quartz Weathering” [with Ronald I. Dorn, faculty advisor]
- 1992 **National Science Foundation and International Geographical Union,** (\$1500, stipend) full travel stipend, to attend the 1992 International Geographical Conference, Washington, D.C.
- 1991 Travel grant, Sigma Xi, Arizona State University (stipend, \$200).

### Grants to advise students

These grants were awarded to students under my supervision as advisor. While each award is related to larger research projects of my own, research proposals were the students' work. Those awarded from external sources are noted in boldface type.

- 2021-22 To Diego Vazquez (Earth & Environmental Science BS major), **Garden State Louis Stokes Alliance for Minority Participation (GS-LSAMP) fellowship** (Research on forest fire soil chemistry.)
- 2005 To Jennifer Reynard (Doctorate in Environmental Management candidate). "Long-term implications of forest fires on soil chemical properties as a result of mineral alterations in the Pineland region of New Jersey." **Garden Club of America Caroline Thorn Kissel Summer Environmental Studies Scholarship**, \$1500.
- 2004 To Peter Davis (Environmental Studies MA candidate). "Ancient Environmental Management and Landscape Modification: An Environmental Perspective on Site Settlement and Activity at Chawak But'o'ob, Northwest Belize, Central America". Margaret and Herman Sokol Graduate Summer Research Fellowship (MSU College of Science and Math), \$5000.
- 2000 To Brenda Paradiso (Geoscience MS candidate). "Soil Profile Development in Loess, Central China". Margaret and Herman Sokol Graduate International Summer Research Grant (MSU College of Science and Math), \$5000.
- 1998 To Yoko Sato (Geoscience MS candidate). "Remote Sensing of Weathered Rock, Hawaii." **Sigma Xi Grants-in-Aid of Research**, \$1000.
- 1997 To Deniz Altin (Geoscience MS candidate). "Organic Rock Coatings on Petroglyphs, Foz Coa, Portugal." Margaret and Herman Sokol Graduate International Summer Research Grant (MSU College of Science and Math), \$5000.

### Unfunded external grant proposals

- 2017 Lal, Pankaj; Tuininga, Amy; Pope, Gregory; Deng, Yang; Galster, Joshua; Miller, Jessica. We Enrich and Enhance Sustainability through Undergraduate Research and Experience in Food, Agriculture, Natural Resources and Human Sciences (WE ENSURE FANH). U.S. Department of Agriculture, \$300,000
- 2017 Lal, Pankaj; Pope, Gregory; Tuininga, Amy; Deng, Yang; Lorenzo Trueba, Jorge. Research and Education to Advance Careers for Hispanics and Underrepresented Persons (REACH UP) in Agriculture, Natural Resources and Human Sciences. U.S. Department of Agriculture, \$1,000,000.
- 2017 Brachfeld, Stefanie; Li, Xiaona; Deng, Yang; Pope, Gregory; Kruge, Michael; Passchier, Sandra; Gorrington, Matthew. Acquisition of a Laser Ablation System to Enhance STEM Research and Education at Montclair State University. US Department of Defense, \$127,885.
- 2014 Wu, Meiyin; Pope, Gregory. REU Site: Transdisciplinary Environmental Science Research on Rivers and Watersheds in Northwest New Jersey. National Science Foundation, \$469,248.
- 2013 Lal, Pankaj; Pope, Gregory; Galster, Josh; FitzGerald, Randall; Ferdinand, Amy. Preliminary Assessment and Inventory of Ecosystem Services and Environmental Threats across the Appalachian Landscape. Appalachian Landscape Conservation Cooperative, \$119,873.
- 2012 Pope, Gregory; Callanan, Jennifer (WPUNJ), Siegel, Peter. Impact of Post-Fire Chemical Weathering on Belowground Cultural Resources. US Department of the Interior, \$111,012
- 2011 Pope, Gregory; Callanan, Jennifer (WPUNJ), Walter Bien (Drexel University). Fire Influenced Soil Clay Alteration in the New Jersey Pine Barrens National Science Foundation, \$194,431.

- 2010 Pope, Gregory, Callanan, Jennifer (WPUNJ), Walter Bien (Drexel University). Fire Influenced Soil Development in the New Jersey Pine Barrens: Interrelationships of Clay Mass Budget, Nutrient Chemistry, and Black Carbon. National Science Foundation, \$165,387.
- 2008 Pope, Gregory. Analysis of Manufactured Topsoil. BioGenesis Washing BGW, LLC, \$5,019.
- 2006 Pope, Gregory A.; Willis, Jacqueline; and external collaborators. Operation Geoscience. National Science Foundation, \$1,750,185.

## TEACHING AND LECTURES

### Courses taught

(Lecturer unless noted otherwise. \* Indicates graduate or joint undergraduate/graduate course.)

at Department of Earth and Environmental Studies, Montclair State University (100-200 level, freshman/sophomore; 300-400, junior/senior; 500-level graduate level)

- EAES 539/341 (prev. GEOS 450) Principles of Soil Science\* (1997-2023)
- GEOS 525 Environmental Geoscience\* (1 semester)
- GEOS 501 Air Resource Management\* (1997-2001)
- GEOS 592/494—EUGS 427/504 Special Topics: Geomorphology\* (2 semesters)
- GEOS 455 Fundamentals of Remote Sensing\* (1997-2001)
- GEOS 495/EUGS 426 Montclair in Southwestern US (summer field trip)
- EAES 497 (prev. EUGS 466) Senior Seminar (2000-2019, 2021-2023)
- EAES 404 Field Geology (2014-2019, 2021-2022)
- EAES 402 Seminar in Sustainability Science (2021-2023)
- EAES 390 (prev. EUGS 309) Research Methods (1999-2019)
- EAES 385 (prev. EUGS 331) Urbanization and Environment (5 semesters)
- EAES 343 Geoarchaeology (summer 2014, Villa of the Antonines Archaeology Field School, Genzano di Roma, Italy)
- EAES 339 (prev. Proseminar GEOS 494/592) Geoarchaeology\* (3 semester)
- EAES 303 Field Geography (or Environmental Field Methods) (2017-2019, 2021-2022)
- HONP 210 Honors Seminar in Science (1 full semester + 1 unit each for 3 semesters)
- EAES 204 Geology Field Trip (summer 2000, Colorado-Arizona-Utah)
- EAES 201 (prev. GEOS 157, 257) Understanding Weather/Weather and Climate (1996-2017)
- GNEP 201 Contemporary Issues in Science (one 3-week unit)
- EAES 200 (prev. GEOS 254) Geomorphology (1998-2017)
- GEOS 107 Planet Earth (3 semesters)
- ENVR 199 (prev. GNEP 199) Freshman/New Student Seminar (2 semesters)
- ENVR 109 The Human Environment (2 semesters)
- EUGS 102 World Geography (7 semesters)
- EAES 100 (prev. EUGS 100) Principles of Geography (2022- ongoing)

for Green Teams internship program, PSEG Institute for Sustainability Studies, Montclair State University

Science Communications (Summer 2023)

at Department of Geography/Geoscience, New Jersey City University (guest lecturer, 2002)

GEOS 335 Geomorphology (1 semester)

at Department of Geography, University of Southern California:

Geography Research Design\* (1 semester) graduate 500-level

Introduction to Physical Geography (2 semesters) 100-level

at Department of Geography, Arizona State University (all undergraduate level):  
 Geographic Information Systems\* (1 semester lecturer and 1 semester co-lecturer) Senior level  
 Introduction to Physical Geography (1 semester lecturer, 4 semesters lab instructor) Intro level  
 Introduction to Computer Applications in Geography (1 semester) Undergrad level  
 Aerial Photography Interpretation (1/3 semester) Junior/Senior level  
 Quantitative Methods in Geography (5 semesters lab instructor) Senior level

*PhD Dissertations and MS/MA Theses completed under my direct mentorship* (at Montclair State Univ. unless noted)

- 2021- Triantafilo Miriagos (MS in Earth & Environmental Science). Environmental chemistry of paint on urban stone and concrete.
- 2020 (July) Bernadette Calderon (MS in Marine Biology and Coastal Sciences). Impacts of fire on stream sediment: a chemical analysis of the 16 Mile Fire in Delaware State Forest, Pennsylvania, USA. [*in progress, expected August graduation*]. (Drs. Joshua Galster and Jennifer Callanan on committee.)
- 2020 (May) Anastasia Figueroa (MS in Earth and Environmental Science). Identification and quantification of black-carbon particulates in urban river sediments involving a multi-tiered analytical approach. (Drs. Michael Kruge and Yang Deng on committee.)
- 2019 (May) Michael Flood (MS in Earth and Environmental Science). Elemental analysis of species specific wood ash: A pyrogenic factor in soil formation and forest succession for a mixed hardwood forest of northern New Jersey. (Drs. Joshua Galster and Jennifer Callanan on committee)
- 2017 (June) Adam Fernandez (MS in Earth and Environmental Science). Mineral and bioclimatic factors controlling soil black carbon sequestration potential along an elevational gradient. (Drs. Michael Kruge and Matthew Gorrington on committee.)
- 2017 (June) Jason Darley (MS in Earth and Environmental Science). Watershed sub-basin scale forest fire impacts on soil chemistry: A case study in Delaware State Forest, Pennsylvania, USA. (Drs. Joshua Galster and Jennifer Callanan on committee.)
- 2012 (May) Eleftherios Papaioannou (MA in Environmental Studies thesis). The Role of Self-Interest as a Determining Factor of Environmental Concerns. (Drs. Harbans Singh and Randal FitzGerald on committee.)
- 2010 (August) Joanne Claire Kornoelje. (MA in Environmental Studies thesis). Stimulating students' interest in and curiosity about nature through frequent and brief trips outdoors. (Drs. Katrina Bulkley, Matthew Gorrington, and Jaclyn Willis on committee.)
- 2009 (December) Muhammad Hamidul Haque. (MS in Geoscience thesis.) Talus slope processes in the Appalachians: an analysis of rock sizes and shapes in the Kittatinny Ridge. (Drs. Matthew Gorrington and Joshua Galster on committee.)
- 2009 Jennifer LaPoma. (MS in Geoscience thesis.) A sedimentary investigation of lineation patterns found in the Pinelands of New Jersey. (Drs. Jennifer Callanan and Matthew Gorrington on committee.)
- 2008 Jennifer Callanan (nee Reynard). (Doctorate in Environmental Management dissertation.) Long term impacts of forest fires on soil chemical properties as a result of mineral alterations, and implications for forest fire management. (Drs. Matthew Gorrington, Andrew McDougall, and Walter Bien on committee.)
- 2006 Christopher D. Aquila. (MA in Environmental Studies thesis.) An analysis of trap and translocation of white-tailed deer (*Odocoileus virginianus*) within the enclosed park area of Duke Farms, Hillsborough, New Jersey, December 2000 to March 2003. (Drs. Harbans Singh and Michael McCormick on committee.)
- 2005 Jennifer Reynard. (MS in Geoscience thesis.) Short-term and long-term effects of high intensity forest fires on soil phyllosilicates. (Drs. Matthew Gorrington and Huan Feng on committee.)

*Other research advising and committee membership (at Montclair State University unless noted)*

Doctoral

- 2023- Michael Ayers (PhD in Environmental Science and Management), shallow geophysics  
2023- Lisa Johnson (PhD in Environmental Science and Management), urban sustainability. (Dr. A. Tuininga, chair)  
2016-22 Nadia Jamil (PhD in Environmental Management), Arsenic contamination in wells. (Dr. H. Feng chair)  
2018-21 Diane Haggmann (PhD in Environmental Management), Brownfield soil biochemistry (Dr. N. Goodey chair)  
2014-16 Wendy Neill (PhD in Environmental Management), green neighborhood award attainment. (did not finish)  
2009-15 Joseph DiGianni (PhD in Environmental Management,), transportation impacts and preferences of dynamic ridesharing. (Dr. R. Sternberg chair)  
2009-14 Marcia Anderson (PhD in Environmental Management). Integrated pest management. (Dr. R. Taylor chair)  
2006-08 Naushad P. Kollikkathara (Doctorate in Environmental Management), environmental decision systems. (Dr. H. Feng chair)  
2005 Haibin Wang (Ph.D., College of Environment and Earth Science, Lanzhou University, People's Republic of China), loess paleoclimatology (Dr. Z. Feng chair)

Masters

- 2021-23 Nicole Perkins (MS in Earth and Environmental Science), Investigation of Microplastics in the Musconetcong River. (Dr. J. Galster chair)  
2021 Jeanne Huguette Perrine (MS in Sustainability Science), COVID-19 impacts on residential waste. (Dr. R. Taylor chair)  
2018-19 Isamar Cortes (MS in Earth and Environmental Science), Modeling of mangrove sediment systems. (Dr. J. Lorenzo-Trueba chair)  
2017-18 Sahar Ahmed (MS in Mathematics / Statistics), Statistical analysis of New Jersey precipitation.  
2017-18 Yamina Nater-Otero (MA in Environmental Studies), "Biological Factors in the STEM Gender Gap". (Dr. R. FitzGerald chair)  
2014-15 Michael Vitterito (MS in Geoscience). Contaminated groundwater plumes. (Dr. D. Ophori chair)  
2014-15 David Sharpe (MS Geoscience). Bedrock ridge geomorphology. (Dr. J. Galster chair)  
2013-14 Jessica M. Evans (MS in Biology). Ectomycorrhizae and metal contamination in urban brownfields. (Dr. J. Krummins chair)  
2013-14 Joseph Kowalski (MS Geoscience). Musconetcong River water temperature changes (Dr. J. Galster chair)  
2013-14. Jay Patel (MS Geoscience). Metamorphic geothermobarometry, Hudson Highlands. (Dr. M. Gorrington chair)  
2013-14 Jessica Rosenberg (MS Geoscience,). Late Pliocene ice-rafted debris rates, Antarctica. (Dr. S. Passchier chair)  
2011-12 Andrew Temples (Geoscience MS), igneous geochemistry, Hudson Highlands (Dr. M. Gorrington chair)  
2010-11 Asaolu Omoniyi (Geoscience MS), groundwater modeling. (Dr. D. Ophori chair)  
2010-11 Elyse Peterson (Geoscience MS), igneous geochemistry. (Dr. M. Gorrington chair)  
2003-04 Philip Verengia (MS Geoscience), igneous geochemistry (Dr. M. Gorrington chair)  
1999-2000 Miyuki Kawada (MS Environmental Studies), transportation geography of I-78. (Dr. W. Solecki chair)

1999-2000 Nicolle Cerveny (MA Geography, Arizona State University), sand grain weathering. (Dr. R. Dorn chair)

1999-2000 Beena Maharjan (MS Geoscience), groundwater modeling. (Dr. D. Ophori chair)

#### Other graduates

2022 Kelly Vera (Graduate Research Seminar), Groundwater contamination in Toms River, NJ.

2017 Claire Rolling (Graduate independent study in GIS), socioeconomic factors for abandoned properties in Paterson, NJ.

2015 Salvatore Zerbo (graduate research project, Geoscience MS, Fall) trace chemistry of Roman marble.

2010 Vera Lazar (graduate research project, Environmental Studies MA, Spring), *phragmites* invasives in Pearl Brook

2009 Sean McLearie (graduate research project, Geoscience MS, Fall), rocky stream sediments of Flat Brook.

2007 Yoko Sato (directed research advisor, MS Geoscience, Fall), remote sensing of volcanic deposits, Hawaii.

2000 Brenda Paradiso-Kunz (advisor, MS Geoscience thesis, and Sokol Graduate Student Award), loess soil geochemistry.

2001 John Stavash (independent study advisor, Spring), air pollution and tombstone weathering.

2000 Michael Schaffner (independent study advisor, Fall), stream chemistry, Ringwood State Park

2000 Damon Noe (independent study advisor, Fall)

1998 Manny Garcia (independent study advisor, Spring)

1997 Deniz Altin (Sokol Graduate Student Award advisor), geomicrobiology of rock varnish

1997 Glenn Calabrese (MS paper advisor, Spring), regolith models for Mars

#### Undergraduate senior thesis

2023 (Spring) Senior Seminar in Geography, Urban Studies, Geographic Information Systems, and or Sustainability Science (individual research projects for **12** students). [Projects associated with Sustainable Jersey project via the PSEG Institute for Sustainable Science are shown by \*] TBA...

2022 (Fall) Senior Seminar: Diana Bernechea (sustainability education), Cooper Bane (paleoenvironments of central New Jersey).

2022 (Spring) Senior Seminar in Geography, Urban Studies, Geographic Information Systems, and or Sustainability Science (individual research projects for **22** students). Team projects were allowed. Projects associated with Sustainable Jersey project via the PSEG Institute for Sustainable Science are shown by \*]; Lev Borin, development history in NJ cities; Sam Chambers, impacted species in municipal wetlands\*; Elaina Clowers, green gentrification in Newark; Damian Dudzik, Megha Patel, Parth Patel, Yasmin Panjabi, EV vs gas/diesel municipal vehicles\*; Andrew Gallegos, Max Rivas, Dominic DeVito, & Leanna Sanchez, municipal water resource assessments\*; Shannon Murphy, carbon impacts from NY health industry; Colleen Potocki & Faustiano Baptista, sustainable transportation; Rafael Rodriguez; Cassidy Serrano; Carly Shepherd, Cassidy Serrano, Sam Chambers & John Picarelli, sustainable municipal fleet inventory\*; Christina Smith; Hailey Spinks; Brooke Wallgren, Greg Iwanicki, & George Held, Emanuel Vazquez, sustainable food packaging.

2022 (Spring) Independent study, Ashley Greiss (Isotope and black carbon chemistry, forest fire soils) and Alexis Zigarelli (Well water outreach with Hope, NJ – Sustainable Jersey internship).

2021 (Spring) Senior Seminar in Geography, Urban Studies, Geographic Information Systems, and or Sustainability Science (individual research projects for **27** students): Tori Agens, Algal blooms; Christopher Alvarado, water quality in Newark; Angel Valeria, landfill environmental justice in Newark; Carlos Barquin, Gulf Coast mangrove retreat; Stefano Bianchi, Spatial study of landfills; Cezanne Bies, subsidence in indigenous Louisiana lands; Sam Blanco, language geography curriculum; Mike Cauterucci, NJ groundwater PFAS pollution; Julia Crimando, fast fashion



sustainability; Patricia Cruz, algal blooms and climate change; Iman Cumberbatch, urban trees and environmental justice; Gianna D'Aloia, coral reef health; Suraj Gill, passive energy in Harlem; Amy Jarocki, trail sustainability in Adirondack Park; Olivia Llana, Scotland sustainable forestry; Jessica Lopez, community garden GIS; Kieran Lynch, urban flood hazard, Raritan; Julia Martinez, sustainable agriculture and obesity; Peter Mofokeng, zero-fare public transportation; Aisosa Omoruyi, trees impact on urban/rural areas; Derek Radzik, urbanization in Passaic watershed; Victoria Sajak, coco coir seed germination; Richard Sang, climate change and hydrology; Peter Sroczynski, sustainable urban organic farming; Justin Torlucci, vapor intrusion in residential houses; Jeffrey Wear, office worker commuting and sustainability; Alexis Zigarelli, hellbender habitat and breeding.

2020-21 Independent study, Jeffrey Wear. (Trace element chemistry, forest fire soils)

2019 (Spring) Senior Seminar in Geography, Urban Studies, or Geographic Information Science (individual research projects for **9** students): Dan Bouchard -- Regional differences in urban-rural US suicide rates; Adriana Calderon -- Climate, water, and food in India; Gabriella Cyruk -- Deforestation and indigenous tribe impact in the Amazon; Luke Farley -- The rise of unusual weather events; Hyun Kim -- Using GIS to optimize library delivery services; Christine Leonhardt -- Trends of walkable cities in the US; Nick Lund -- Impacts of urbanization on air quality; Carlos Montufar -- Analysis of flood mitigation infrastructure in Hoboken; Alana Trabuco -- Fire and climate future of California.

2018 (Fall) Senior Seminar in Geography, Valerie Baidoo.

2018 (Spring) Independent study project, Janell Capo, carbon storage in soils.

2018 (Spring) Senior Seminar in Geography, Urban Studies, or Geographic Information Science (individual research projects for **8** students): John Beck, student attitudes toward environmental awareness; Adrianna Calderon, spatial analysis of fast food restaurants and socioeconomic status; Aanyah Cook, habitats for endangered kit fox and bees in California; Anthony Doviak, impacts of infrastructure on soil characteristics; Odi Jabbar, coral bleaching in the Atlantic; Elizabeth Reyes, fast food restaurants and health in New Jersey; Samiyah Roberts, spatial variation of lead exposure in Newark; Chris Tenebruso, assessing drone capabilities for environmental research;

2017 (Spring) Senior Seminar in Geography, Urban Studies, or Geographic Information Science (individual research projects for **9** students): Francisco Bautista, park trash dumping; Nicholas Barcia, crime and foreclosure rates in Detroit; Robert Clark, crime and police force geography of Geography; Mauricio Garcia, solar power generation growth in NJ; William Giordano, beach erosion in NJ; Marcus Hammonds, geography of high school athletics in NJ; Jeff Ludwig, geography of consumer behavior in bicycle parts; Samiyah Roberts, lead contamination in Newark, NJ; Luis Vasquez.

2016 Independent study project in Advanced GIS, Arianna Qira, GIS Pilot Study of Rock Climbing Crag in the Adirondacks.

2016 Senior Seminar in Geography, Urban Studies, or Geographic Information Science (individual research projects for **13** students): Michaela Atkins, green infrastructure design in cities; Matthew Cheung, GIS of gun regulations in the United States; Isamara Cortes, geography of environmentally efficient vehicles in northern NJ; Michael Johnson, aquifer depletion in southern NJ; Roy Mateus, ecosystem service of mature park trees; Emily McIntosh, property health in Newark, NJ; Keyan Ostad-Hashemi, GIS of automobile accidents on national highways; Rachel Preece, anthropogenic beach erosion in NJ; Arianna Qira, GIS identification of ideal rock climbing locations; Colin Trevors, sustainable golf course maintenance in FL; Katrina Villani, economic geography of chocolate retail in northern NJ; Frank Vocaturo, infrastructure maintenance in NJ state parks; Nicolas Zarro, chemistry of Roman glass tesserae.).

2015 Senior Seminar in Geography, Kenichi Matsumoto, trash pollution impacts on soil at a nature reserve.

2015 Senior Seminar in Geography or Geographic Information Science (individual research projects for **12** students): Victoria Anderson, environmental impacts on sea nettles, Barnegat Bay; Michael

- Calvelli, land use change in Washington Township, NJ; Alex Caputi, geography of car crash fatalities in NJ; Jason Darley, GIS of environmental impacts of hydraulic fracturing, PA; Andrea Fernandez, polar bear habitats and global warming; Duke Hong, GIS of land use and contaminated sites in NJ; Justin Lynch, life cycle of ammunition shell casing; Rachel Maynard, hedonic study of properties surrounding contaminated Liberty State Park; Jeffrey Nuccetelli, policy for paleontological resources at risk; Claire Rolling, changing flood plain and urbanization in Paterson, NJ; Ryan Santo, tree hazards and power lines, Saddle River, NJ; Shiran Sewpal, frequent flooding and real estate market, Milford, NJ; Lewis Windle, impacts of trail use and trash, northern NJ ).
- 2014 Matthew Wolfanger, Senior Seminar in Geography thesis, Fall 2014: environmental justice and gentrification, Brooklyn, NY.
- 2014 Senior Seminar in Geography, Spring (individual senior research projects for 3 students: Joseph Maggiulli, Studentshed of NJ universities; Daniel Rogers, Land use and flooding in Plainfield, NJ; Marc Wilson, Crime rates and socioeconomic indicators, northern New Jersey.)
- 2013 Michael Van Ry (Senior Seminar in Geography thesis, Fall). Weathering of Roman glass.
- 2013 Senior Seminar in Geography or Urban Studies, Spring (individual senior research projects for 12 students: Nicole Bernard-Rance, AmandaBischak, Kam Lam, Deborah Lewis, Rachel Malaniak, Joseph O'Brien, John Rogers, Michael Salmond, Yojna Sharma, Steven Tsemberlis, George Wafula, and Salvatore Zerbo.)
- 2012 Senior Seminar in Geography or Urban Studies, Spring (individual senior research projects for 12 students: Dionisio Bras, Jessica Centinaro, Nanci Fioravanti, Dyke Gill, Anthony Marrone, Rahveyei McKinnon, Benjamin Olagadeyo, Michelle Pomponio, David Purdy, Anthony Sanchez, Eric Tymczak, Aslan Varoqua.)
- 2011 Matthew Eaton (senior seminar research project, Geography BA, Fall): Food carbon footprints.
- 2011 Matthew Popin (senior seminar research project, Geography BA, Fall): Global warming flood frequency.
- 2011 Senior Seminar in Geography, Spring (individual senior research projects for 8 students: Nicoletta Aguccioni, Kassandra Archer, Kiryl Bychkouski, Michael Donnelly, Nicholas Durocher, Sam Pobanz, Jennifer Prawetz, David Sudol.)  
[Michael Donnelly, thesis on smart growth in urban sports arenas, won student paper competition at MSD-AAG, and accepted for publication in *Middle States Geographer*]
- 2011 Michael Donnelly (senior seminar project, Geography BA, Spring): Sport stadiums and smart growth; won student paper competition at MSD-AAG.
- 2010 Samuel Pobanz (senior research project, Geographic Information Science minor, Summer): GIS of weathering factors, presented at Middle States AAG.
- 2010 Daniel Prioloeau (senior research project, Geography BA, Summer): Urban tree hazards; won student paper competition at MSD-AAG, and published in *Middle States Geographer*.
- 2010 Amanda Lotto (senior research project, Geography BA, Spring), macroinvertebrates and stream quality
- 2009 Darryl Green (senior research project, Geography BA, Fall), wind energy prospects in Montclair.
- 2009 Senior Seminar in Geography, Spring (individual senior research projects for 9 students: Anthony Cauterucci, Christina Evers, Nicole Grasso, Lauren Graziano, Vanessa Haries, Richard Pobuta, Candace Quinn, and Sarah Schuchman)
- 2008 Richard Pobuta (senior research project, Geography BA, Summer)
- 2008 Libertad Urena (senior research project, Geography BA, Spring)
- 2007 Becky West (advisor, honors research project, Geography BA, Fall), stream quality of Third River, Montclair.
- 2007 Brynn Sheehan (advisor, senior research project, Geography BA, Summer)
- 2004-05 Anne Ajamian (advisor, senior research project, Geography BA), forest fire soil pH.

2002-03 Belkys Melendez (advisor, senior research project, Geography BA, Summer/Fall/Spring):  
Acid precipitation scavenging; won student paper prize, MSD-AAG, and published in *Middle States Geographer*.

1999 Irene Zilberman (advisor, senior research project, Spring), cemetery history in NJ

1998 Tofa Beuregard (senior thesis examiner, Oberlin College), Etruscan ceramics

1998 Melissa Stoltz (senior thesis examiner, Oberlin College), Etruscan ceramics

Other undergraduate

2006 Samantha Cook (ACS Project SEED high school student, summer)

2003 Julie Lucente (independent study advisor, Spring)

2002 George Nikolis (independent study advisor, Spring)

2002 Leoncia Porter (independent study advisor, Spring)

### **Courses and curriculum proposals initiated and approved**

New BS/MS in Sustainability Science, 2009-10 ( co-proposer, member of committee)

Minor in GIScience, 2008 (member of proposing committee)

Post-graduate certificate in GIScience, 2007 (member of proposing committee)

Complete revision in Environmental Studies MA, 2006 (approval pending)

Doctoral program in Environmental Management, 2003 (member of proposing committee)

New BA concentration in Environmental Studies, Geography, 2002

#### *Courses created or extensively revised:*

Geography Field Methods, 2017 (updated course)

Graduate Principles of Soil Science, 2016

Geoarchaeology, 2015 (new course)

Geomorphology, 2009 (new course)

Senior Seminar in Geographic Information Science, 2008 (new course)

Freshman Seminar in Earth & Environmental Studies, 2006 (new course, co-proposed)

Montclair in Southwestern US (summer field trip), 2003 (new course)

Understanding Weather and Climate GEOS 257, 2001 (new course)

Introduction to Computer Applications in Geography, 1992 (new course, Arizona State Univ.)

Principles of Geography EUGS 100 (revised, 2007, as General Education Contemporary Issues in Science course)

Urbanization and Environment EUGS 313 (revised)

Research Methods EUGS 309 (revised)

Air Resource Management ENVR 501 (revised)

### **Professional lectures, colloquia, and panels (invited unless noted)**

2023 Panel 1: Wildfires and Climate Change: Risk Factors and Impacts on Public Health. (Michael Kronick, Melissa Miles, Makoto Kelp, Gregory Pope). **Breathing Fire: How as Warming Planet Impacts Air Quality and Health**, Montclair, State University, October 9, 2023,

2021 New Jersey's Climate in the Distant Past. Invited lecture, panel session on Climate Science, Climate Change, and Climate education, **Alliance of New Jersey Environmental Educators Winter Conference**, January 28, 2021 (online).

2018 The Normal Sicily Project: Reflections on how an Historian, a Software Engineer, and an Earth Scientist are Collaborating to Create a Unique Web App for the Island's Norman Heritage". Guest lecture (co-lecture with Dr. Dawn Hayes, and Joseph Hayes), Digital Humanities Lecture Series, **Drew University**, June 21, 2018.

2018 Impacts of Forest Fires on Soils. Speaker Series, **Geography Department, Rutgers University**, March 30, 2018.

- 2018 The Normal Sicily Project: Reflections on how an Historian, a Software Engineer, and an Earth Scientist are Collaborating to Create a Unique Web App for the Island's Norman Heritage". Guest lecture (co-lecture with Dr. Dawn Hayes, and Joseph Hayes), Perspectives on the Past Lecture Series. Center for Heritage and Archaeological Studies, Montclair State University, March 28, 2018.
- 2015 Human geography. Guest lecture for Study Abroad Program, College of Science, Chinese Culture University (visit to Montclair State University), September 2, 2015.
- 2014 Glacial hydrology. Guest lecture for EAES 230 Hydrology, for Dr. Joshua Galster, Dept. of Earth & Environmental Studies, Montclair State University, November 4, 2014.
- 2014 Geoarchaeology. Guest lecture for Mediterranean Archaeology (GNHU 361), for Dr. Deborah Chatr Aryamontri, Department of Classics and General Humanities, Montclair State University, October 9, 2014.
- 2014 Weathering and Soils. Guest lecture for EAES 441 Stratigraphy, for Dr. Sandra Passchier, Dept. of Earth & Environmental Studies, Montclair State University.
- 2014 An Emperor's Residence: Archaeological and Archaeometrical Investigations at the Villa of the Antonines. Guest lecture, with Dr. Deborah Chatr Aryamontri, Archaeological Institute of America – Northern New Jersey Society, Lecture Series, Montclair State University, February 26, 2014.
- 2012 Hurricane Sandy: Reflections and Visions – I. The Natural Environment. Panel session (with Drs. Paul Bologna, Stefanie Brachfeld, and Joshua Galster), Passaic River Institute, College of Science and Math, Montclair State University, November 27, 2012.
- 2011 Not so solid as a rock: The physics of mechanical weathering. Guest speaker, Montclair State University Physics Club, February 16, 2011.
- 2010 Geomorphology at School of Conservation. Guest lecture, LSAMP Retreat, **New Jersey School of Conservation** (Montclair State University), July 27, 2010.
- 2008 Terrestrial transport environments. Guest lecture for GEOS 454 Sedimentology, for Dr. Sandra Passchier. Dept. of Earth & Environmental Studies, Montclair State University, November 11, 2008.
- 2008 Global warming, causes and solutions. Panel Session (with Drs. M. Chopping, J. Galster, D. Vanderklein, N. Smith-Sebasto). Focus the Nation, Montclair State University participation, January 31, 2008.
- 2007 The Geography of Weathering Revisited. Guest seminar, **Villanova University**, May 3, 2007.
- 2007 Geography of the Middle East. Guest lecture for Honors Contemporary Issues (Professor Susan Hussein), College of Humanities and Social Sciences, Montclair State University, January 24, 2007.
- 2007 Adventures in Rock Art, Emphasis on Rock. Department of Anthropology Seminar Series, Montclair State University, January 17, 2006.
- 2000 A new model for weathering. Colloquium, Department of Geography, **Lanzhou University, Lanzhou, People's Republic of China**, August 11, 2000;
- 2000 Climate and soils. Colloquium, **Institute for Geology and Geophysics, Beijing**, People's Republic of China, August 3, 2000.
- 2000 Anthroweathering. Lecture, Montclair State University Archaeology Field School, Feltville, New Jersey, July 18, 2000.
- 2000 Weathering of cultural stone. Colloquium, **Dept. of Geography and Geology, Bloomsburg University**, Bloomsburg, Pennsylvania, April 28, 2000.
- 2000 Determining the age of paleoalluvium atop Rampart Range, Teller and Eastern Park Counties, Colorado. Seminar, **PRIME Lab, Purdue University**, West Lafayette, Indiana, March 10, 2000.
- 2000 Weathering of petroglyphs: implications for dating techniques. Colloquium, **Dept. of Geosciences, Purdue University**, West Lafayette, Indiana, March 9, 2000.

- 1999 Weathering of cultural stone: Deteriorology of Megalithic to Manueline structures in Portugal. Colloquium, **Dept. of Geography, Rutgers University**, New Brunswick, NJ, February 19, 1999.
- 1998 Anthroweathering: theoretical framework and case studies for human-impacted weathering. Colloquium, **Oberlin College**, Ohio, April 30, 1998.
- 1998 Remote Sensing. SMUG Workshop (2 sessions), College of Science and Math, Montclair State University, Spring 1998.
- 1996 Anthroweathering: theoretical framework and case studies for human-impacted weathering. Colloquium, **Lamont-Doherty Earth Observatory, Columbia University**, April 5, 1996.
- 1996 Quartz weathering on Pacific marine terraces—a geography of weathering. Colloquium, **Department of Geography and Urban Analysis, California State University-Los Angeles**, March 29, 1996.
- 1996 The geography of weathering: A new method for a new model. Colloquia—  
College faculty, **Carthage College**, February 23, 1996  
Department of Geography and Planning, **University of Toledo**, February 29, 1996  
Department of Geography, History, and Politics, **Morehead State University**, March 8, 1996  
College of Science, **University of West Florida**, March 15, 1996  
Department of Earth and Environmental Studies, **Montclair State University**, March 25, 1996
- 1995 Quartz weathering on granitic marine terraces, Pacific Coast. Colloquium, Department of Geography, **University of Southern California**, December 1, 1995.
- 1995 A geographical analysis of weathering. Colloquia—  
Department of Geography, **University of South Carolina**, January 23, 1995  
Department of Geography and Planning, **University of Akron**, February 13, 1995  
Department of Geography, **Sonoma State University**, March 6, 1995  
Department of Geography, **University of Oklahoma**, March 9, 1995  
Department of Geosciences, **University of Missouri/Kansas City**, March 28, 1995  
School of Natural Sciences, **Southern Utah University**, May 2, 1995.
- 1995 Anthropogenic climate change. Guest class lecture, Department of Geography and Planning, **University of Akron**, February 13, 1995.
- 1994 Weathering studies in the Pacific Northwest. Brown Bag Colloquium Series, Department of Geography, **Arizona State University**, November 8, 1994.
- 1991 A latitudinal cultural and environmental transect of Baja California. (With Lee G. Lines.) Brown Bag Colloquium Series, Department of Geography, **Arizona State University**, October 15, 1991.
- 1991 Physical geography around the world - implications for international construction. Department of Construction, School of Engineering, **Arizona State University**, September 20, 1991.

#### **Public and professional field trips**

- 2023 Geology of Jonathan's Woods. Public field trip for Protect Our Wetlands, Water, Woods (POWWW), Denville, New Jersey, November 5, 2023.
- 2023 Geology of Cheesequake State Park, New Jersey. Field trip for PSEG Institute for Sustainability Studies Green Teams program, August 3, 2023.
- 2022 Geology of Jonathan's Woods. Public field trip for Protect Our Wetlands, Water, Woods (POWWW), Denville, New Jersey, November 12, 2022.
- 2021 Geology of Jonathan's Woods. Public field trip for Protect Our Wetlands, Water, Woods (POWWW), Denville, New Jersey, November 13, 2021.
- 2012 Cultural Stone of Central Park: Outcrops, Arches and Statues. Hosted by Association of American Geographers Annual Meeting, New York City, February 26, 2012. (Patricia Beyer, Bloomsburg University, co-leader). (repeat and revision of 2001 field trip)

- 2004 Digging with the Devil: Physical Geography and Resource Use in the New Jersey Pine Barrens. Hosted by the Association of American Geographers, Centennial Meeting, Philadelphia, Pennsylvania, March 17, 2004 (co-leader with Patricia Beyer, trip leader, Bloomsburg University, and Michael Applegarth, Shippensburg University).
- 2001 Glacial Landscapes of the Lower Hudson Valley. Hosted by Teatown Lake Reservation, Ossining, New York, October 27, 2001.
- 2001 Cultural Stone of Central Park: Outcrops, Arches and Statues. Hosted by Association of American Geographers 97<sup>th</sup> Annual Meeting, New York City, . March 2, 2001, (Patricia Beyer, Bloomsburg University, co-leader).
- 1999 Hawai'i Volcanoes National Park, Big Island of Hawai'i. Hosted by Association of American Geographers, 95<sup>th</sup> Annual Meeting, Honolulu, Hawai'i (co-leader with Thomas Paradise, University of Hawaii-Hilo and Patricia Beyer, Bloomsburg University).
- 1993 Geomorphology: Mojave Desert to Death Valley. Hosted by International Association of Geomorphologists, 3<sup>rd</sup> International Geomorphological Conference, Field Excursion A3, August, 1993. (Co-leader with Ronald I. Dorn and Norman Meek, trip leaders)
- 1988 The Calhan [Colorado] Paint Mines. Hosted by National Audubon Society, June, 1988, El Paso County, Colorado.

**Invited lectures for the general public or K-12 schools**

- 2022 “Natural disasters question and answer.” Ms. Ellen Luca’s 4<sup>th</sup> Grade Classes, Brookdale Elementary School, Bloomfield, NJ, February 22, 2022.
- 2019 “Cultural Stones: Applying Geoscience to the Conservation of Historic Monuments”. Guest lecture for Four Seasons at Great Notch Community, Woodland Park, NJ, December 4, 2019.
- 2019 “Record Cold and Climate Warming? It’s Physics – an Explanation of Rossby Waves”. Guest lecture for Montclair Society of Engineers, Union Congregational Church, Montclair, NJ, February 15, 2019.
- 2018 “Meet a Scientist”, Bradford Elementary School Science Fair, Montclair, NJ, March 22, 2018 (guest demonstration of maps, landforms, and mineral resources).
- 2017 “Ice Age in Montclair”, guest lecture for Friends of Anderson Park, Montclair Public Library, Montclair, NJ, February 7, 2017.
- 2016 “Weather and Clouds”, presentation to Innes Borstel’s preschool class, Ben Samuels Children’s Center, Montclair State University, Montclair, NJ, Aug. 11, 2016.
- 2013 “Extreme Weather”. Presentation to the Montclair Society of Engineers and middle school guests, Montclair, NJ, Sept. 19, 2013.
- 2013 “Rocks and Minerals”. Guest presentation at Shongum Elementary School, Mrs. Erica Rossman, 2<sup>nd</sup> grade, Randolph, NJ, January 31, 2013.
- 2011 “Busting up Rocks – Weathering”. Guest presenter, MSU GK-12 STEM Program, “Fellows in the Middle”, Math and Science Day, June 3, 2011, Montclair State University.
- 2009 “Geology”. Guest lecture at Edison Middle School (5 classes for Mrs. Joanne Kornoelje, 6<sup>th</sup> grade), West Orange, NJ, December 16, 2009.
- 2009 “Fossils and Minerals”. Guest presenter, MSU GK-12 STEM Math and Science Day, June 9, 2009.
- 2008 “Hurricanes and tropical storms”. Science Education workshop, July 10 and August 5, Stevens Institute of Technology, Hoboken, NJ.
- 2008 “Minerals and fossils”. Workshop leader, MSU GK-12 Math/Science Day Field Trip, June 6, 2008, Montclair State University.
- 2008 “Environment and Resources: The Original World Web”. Guest lecture for Montclair State University World Cultures Day: “All the World’s A Web: The Impact of Globalization on World Cultures”, April 3, 2008.

- 2008 “Environment and the 2008 Presidential Candidates”. Luncheon speaker, Montclair Lions Club, Montclair, New Jersey, February 20, 2008.
- 2005 “Hurricanes and Tropical Storms: How, Where, and When?” (with Jaelyn Willis). Hurricane Day live interactive video lecture, from PRISM (Professional Resources in Science and Math), Montclair State University, broadcast to schools in Totowa and Bridgewater, New Jersey; Hattiesburg, Mississippi; and Memphis, Tennessee; November 17, 2005.
- 2004 “Global Warming: Realities and Myths.” Lecture, Crane’s Mill Retirement Center, West Caldwell, New Jersey, April 20, 2004.
- 2004 “What Does a Soil Scientist Do?” Presentation at Katherine D. Malone School (Mrs. Harriet Kasper’s 4<sup>th</sup> Grade class), Rockaway, New Jersey, April 23, 2004.
- 2002 “Water quality underground” (with Duke Ophori). Workshop presented at Croton Watershed Student Science Conference, Teatown Lake Reservation, Ossining, New York, April 29, 2002.
- 2002 “Weather instruments.” Presentation, Garfield Elementary School #10, Garfield, New Jersey, February 5, 2002 and School #5, April 13, 2002.
- 2001 “Acid Rain.” Lecturer, Cranford High School, Cranford, New Jersey, May 19, 2000..
- 2001 “China.” Guest presenter, Suffern Montessori School, Suffern, New York.
- 2000 “Geology of Yogi Berra Stadium”, Presenter, Yogi Berra Museum Science Week, Little Falls, New Jersey.
- 1999 Megaliths around the world (with R. Rubenstein). Teatown Lake Reserve, Ossining, New York, December 14, 1999.
- 1999 Guest lecturer, family programs, Teatown Lake Reserve, Ossining, New York (2 occasions).
- 1997-99 Guest lecturer, summer family education program, Central Park Conservancy (3 occasions); and Central Park Ranger programs (1 occasion); New York City.
- 1998 Guest lecturer, family programs, Poricy Park Nature Center, Middletown, New Jersey (4 occasions)
- 1997 The foundations: historical geology and paleogeography of Central Park. Lecture, Central Park Conservancy, New York City, March 5, 1997.
- 1998 Portugal – cultural and environmental crossroads. Poricy Park, Middletown, NJ. February 20, 1998.
- 1998 Guest presenter, The Newark Museum, Newark, New Jersey (1 occasion)
- 1986-87 Visiting geology lecturer, School District 2 elementary schools, Colorado Springs, Colorado.

## **PROFESSIONAL INFORMATION**

### **Special skills and experience**

- Geochemistry lab methods
- Geomorphological field and lab analysis
- Soil field and lab analysis
- Building stone assessment
- Geoarchaeology
- Electron microscopy
- Remote sensing
- Digital image processing
- Statistics
- Geographic information systems
- Cartography
- Quaternary geochronometry
- Petrographic thin-sectioning
- Meteorological instruments
- Hazards compliance
- Human subjects research review (Institutional Review Board)

### **Workshops, courses, and other continuing education**

- 2012 CITI (Collaborative Institutional Training Initiative) IRB Member Basic Course, completed 11/20/12, Reference number 9173699.
- 2008 Teaching Geographic Problem Solving with ArcGIS. 1 day workshop, Association of American Geographers, Boston Annual Meeting.
- 2007 How to create your personal web page. Information Technology, Montclair State University, 1 day workshop.
- 2007 Introduction to Blackboard. Information Technology, Montclair State University. 1 day workshop.
- 2007 Teaching New Student Seminar Instructor Workshops. New Student Experience, Montclair State University and Dr. Joe Cuseo, Marymount College.

### **Professional memberships (\* present membership)**

- Association of American Geographers (AAG)\*
  - AAG Geomorphology Specialty Group\*
  - AAG Paleoenvironments Specialty Group\*
  - AAG Historical Geography Specialty Group\*
  - AAG Protecting Spaces Specialty Group\*
  - AAG Biogeography Specialty Group
  - AAG Climatology Specialty Group
  - AAG Coastal/Marine Specialty Group
  - AAG Remote Sensing Specialty Group
- American Geophysical Union (AGU)
- American Rock Art Research Association (ARARA)
- Association for the Study of Marble and Other Stones in Antiquity (ASMOSIA)
- European Geoscience Union (EGU)
- Gamma Theta Upsilon (GTU)\*
- Geological Society of America (GSA)\*
  - GSA Geoarchaeology Division\*
  - GSA Quaternary Geology & Geomorphology Division\*
  - GSA Soil Science Division\*
- International Geographical Union
- International Association of Engineering Geologists
- Middle States Division/AAG\*
- National Geographic Society Geography Intern Alumni
- New Jersey Academy of Science
- Sigma Xi\*
- Society for Archaeological Science
- Stone Weathering and Atmospheric Pollution Network (SWAPNet)

### **HONORS AND SERVICE**

#### **Honors**

- 2023 (and annually since 2014) Outstanding Service, New Jersey Community Cooperative Rain, Hail, and Snow observation network.
- 2016 Voted, chair of National Councilors, Association of American Geographers
- 2015 Appointed, National Councilor, Association of American Geographers
- 2013 Nominated, National Councilor, Association of American Geographers
- 2011 Nominated, Montclair State University Outstanding Academic Advising Award
- 2011 10-Year Service Recognition, Chapter Sponsor, Gamma Theta Upsilon



- 2010 Nominated, Faculty Teaching Award of Excellence, College of Science and Math, Montclair State University
- 2009 Nominated, Faculty Teaching Award of Excellence, College of Science and Math, Montclair State University
- 2008 Honorary Member, Alpha Lambda Delta, National Freshman Academic Honor Society [for “outstanding commitment to first year students”]
- 2008 Nominated, Faculty Service Award, College of Science and Math, Montclair State University
- 2004 Faculty Service Award, College of Science and Math, Montclair State University
- 2004 Elected as Chair, Geomorphology Specialty Group, Association of American Geographers
- 2003-6 Elected as Regional Counselor, Middle States Division, Association of American Geographers (3 year term, serving on the AAG Council)
- 2003 Elected as Secretary, Geomorphology Specialty Group, Association of American Geographers
- 2002 Appointed to chair, Awards Committee, Geomorphology Specialty Group, Association of American Geographers
- 2002-05 Appointed by Dean of Graduate College, Arizona State University, to serve on master’s and doctoral supervisory committees.
- 2001 Elected as President, Middle States Division, Association of American Geographers
- 2000 Elected as Vice President, Executive Committee, Middle States Division, Association of American Geographers
- 2000 Elected committee member, Awards Committee, Geomorphology Specialty Group, Association of American Geographers
- 1999 Featured “geography professional” (one of six, only academic represented), in *Geosystems: An Introduction to Physical Geography, 4<sup>th</sup> edition* [the leading introductory textbook], by Robert W. Christopherson, Prentice Hall (1999). [Subsequently updated in 5<sup>th</sup> Edition, 2003, and added to *Elemental Geosystems, 3<sup>rd</sup> edition*, 2001.]
- 1999 Certificate of Appreciation, Poricy Park Conservancy, for volunteerism and education.
- 1999 Elected as Secretary, Executive Committee, Middle States Division, Association of American Geographers
- 1995 Dean’s Award for Excellence in Teaching by a Faculty Associate, College of Liberal Arts and Sciences Quality of Instruction Committee, Arizona State University.
- 1992 Nominated, Distinguished Teaching Associate, College of Liberal Arts and Sciences Quality of Instruction Committee, Arizona State University.
- 1992 Associate membership, Sigma Xi.
- 1991 Member, Gamma Theta Upsilon, the Geography Honor Society, Arizona State University
- 1988-91 Graduate tuition scholarship, Arizona State University.
- 1988 Geography internship, National Geographic Society, Washington, D.C.
- 1983-84 Regents scholarship, University of Colorado, Colorado Springs.

### **Manuscript and research proposal reviews**

*American Indian Rock Art* (2000)  
*Annals of the Association of American Geographers* (1999, 2014, 2017)  
*Association for the Study of Marble and Other Stones, Proceedings V* (1999)  
*Catena* (2010, 2020)  
City University of New York Internal Research Grants (2006, 2011)  
*Environmental Earth Science* (2014)  
*Earth Surface Process and Landforms* (2011)  
*Geography of Wine* (2010)  
*Geomorphology* (1999, 2004, 2005, 2006, 2016, 2020)  
*Journal of Building Engineering* (2021)  
*Journal of Geophysical Research* (2010)

*Journal of Asian Earth Science* (2016)  
 McGraw-Hill Publishing Company (1996)  
*Middle States Geographer* (1997, 2000, 2001, 2002, 2004, 2009, 2010, 2020, 2021)  
 National Geographic Society Research Grants (2004)  
 National Oceanic and Atmospheric Administration (2000)  
 National Science Foundation (1999, 2005, 2023)  
*Nature* (2014)  
 New Jersey Academy of Science *Bulletin* (2012)  
*New Jersey Studies* (2021)  
*Physical Geography* (1996, 2004, 2012)  
*Progress in Physical Geography* (2018)  
 Prentice Hall Publishing Company (1996)  
*The Journal of Geography* (2001)  
*The Professional Geographer* (1996, 2002, 2003, 2008)  
*Weathering 2000 Proceedings* (2000)

## Professional service

### *Administrative and service documents*

- 2017 Napton, Darrell, and Gregory Pope. External Reviewers' Report, Minnesota State University Department of Geography Program Review. On file with the Dean's Office, College of Social and Behavioral Sciences.
- 2009 Johnson, Kevin A., David Aborn, and Gregory A. Pope. External Review, MS in Environmental Biology, Louisiana State University at Shreveport. Document on file with the Louisiana Board of Regents, 11 pp.
- 2006 Pope, Gregory A., Wayne Bond, Kathleen Hughes, Susan Kerner, Nancy Lauter, John Leffler, John McGinnis, Diana St. Lifer, Jack Samuels. Chapter Four: Leadership, Governance, and Administration. In Minier, Judith and Wunderlich, Shahla (eds.), *Self Study Report for the Middle States Commission on Higher Education*, pp. 34-41. Document prepared for the ten-year university reaccreditation, on file with the Montclair State University Office of the Provost and Vice President for Academic Affairs.
- 2005 Pope, Gregory A. and Carolyn Keiffer. Report of the 2005 External Review Committee, Environmental Sciences Program, State University of New York College at Oneonta. Document on file with the Office of the Dean, School of Science and Social Science, 6 pp.
- 2004 Pope, Gregory A. *Department of Earth and Environmental Studies Mission Statement and Self Study*. Document prepared for Five-Year External Review, on file in the department and with the Montclair State University Office of the Provost and Vice President for Academic Affairs. 68 pp.

### *Academic*

- 2023- Member, Interdisciplinary Studies BA curriculum committee, Montclair State University.
- 2023- Member, Interdisciplinary Governance Working Group, School for Interdisciplinary Studies, Montclair State University.
- 2023- Member, Carnegie Leadership for Public Purpose committee, Division of Academic Affairs, Montclair State University
- 2023- Chair, Program Vitality Task Force and Curriculum Committee, College of Science and Mathematics, Montclair State University.

- 2022- Undergraduate advisor, Geography BA program and Sustainability Science BS program, Dept. of Earth and Environmental Studies, Montclair State University.
- 2008- Member, Steering Committee, Center for Heritage and Archaeological Studies, Montclair State University
- 2000- Faculty advisor, Iota Chapter, Gamma Theta Upsilon, the International Geography Honor Society, Montclair State University
- 1997- Member, Student Awards Committee, Dept. of Earth and Environmental Studies, Montclair State University.
- 2021 External support letter, tenure application, Dr. Deborah Chatr-Aryamontri, Department of Classics and Humanities, Montclair State University
- 1996-2019 Chair (2001-2013) and member (1997-2001, 2013-19 ) Curriculum Committee, Dept. of Earth & Environmental Studies, Montclair State University.
- 1997-2019 Undergraduate advisor, Geography BA program
- 2012-17 Faculty Advisor, US Green Building Council Student Group at Montclair State University [campus club].
- 2012-18 Member, Recruitment Committee, Dept. of Earth and Environmental Studies, Montclair State University.
- 2018 Member, search committee for Dean, College of Science and Math, Montclair State University
- 2009-18 Chair (2009-2010) and member (2010- ), College of Science and Math Honors Committee (SHIP), Montclair State University
- 2016-17 Member, faculty search committee, sustainability science, Dept. of Earth & Environmental Studies, Montclair State University.
- 2012-17 Department Personnel Advisory Committee [promotions, tenure, reappointment], Earth & Environmental Studies, Montclair State University
- 2014-15 Judge, interdisciplinary student presentations, Student Research Symposium (April 2014, April 2015), Montclair State University.
- 2010-14 Observer to the Graduate Council, Montclair State University, American Federation of Teachers Local 1904 [faculty union representative, ex-officio to the Council]
- 2014 External referee, tenure application for Dr. Casey Allen, University of Colorado at Denver.
- 2014 Team member, Carnegie Community Engaged Campus application, Montclair State University.
- 2012-14 Member, Institutional Review Board (Human Subjects), Montclair State University
- 2013-14 Member, General Education Assessment Committee, Montclair State University.
- 2013 Proposal review and session moderator, 7<sup>th</sup> Annual Student Research Symposium, Montclair State University, April 20, 2013.
- 2011-12 Chair, faculty search committee, structural geology, Dept. of Earth & Environmental Studies, Montclair State University.
- 2010-11 Member, search committee, Environmental Economics, Dept. of Earth and Environmental Studies, Montclair State University.
- 2006-09 Member, University General Education Committee, Montclair State University
- 2004-08 Member, Doctorate in Environmental Management admissions committee, Montclair State University
- 2004-08 Member, Doctorate in Environmental Management doctoral faculty appointment committee, Montclair State University
- 2003-08 Member, University Library Committee, Montclair State University
- 2002-08 Member, Doctorate in Environmental Management executive committee, Montclair State University
- 2008 Member, University Sabbatical Review Committee, Montclair State University
- 2007 Member, Environmental Management Doctoral Director search committee, Dept. of Earth & Environmental Studies, Montclair State University.

- 2006-07 Member, Hydrology search committee, Dept. of Earth & Environmental Studies, Montclair State University.
- 2004-07 Member, Undergraduate Academic Advising Council, Montclair State University
- 2003-07 Coordinator and sponsor, Environmental Studies MA program curriculum revisions, Dept. of Earth & Environmental Studies, Montclair State University.
- 2006 External referee, tenure decision for Dr. Alice Turkington, Department of Geography, University of Kentucky.
- 2003-06 Member, College of Science and Math Infrastructure Committee, Montclair State University.
- 2003-06 Chair, Department of Earth and Environmental Studies, Montclair State University.
- 2005-06 Chair, Governance Subcommittee, and member, Middle States Accreditation Steering Committee, Montclair State University.
- 2005 External review committee member, Environmental Studies Program, State University of New York at Oneonta
- 2005 Member, University Senate Facilities Committee, Montclair State University
- 2000-04 Alternate member, General Education college committee, Montclair State University.
- 2001-03 Associate Chair, Department of Earth and Environmental Studies, Montclair State University.
- 1998-03 Department computer facilities committee, Department of Earth and Environmental Studies, Montclair State University.
- 2002 Member, Search Committee, Geophysics and Environmental Chemistry tenure track faculty positions, Department of Earth & Environmental Studies, Montclair State University.
- 2001-02 Member, Promotion Committee, College of Science and Math, Montclair State University.
- 2001-02 Member, Search committee, Directorship of Montclair State University School of Conservation.
- 1999-2002 Environmental Studies Ph.D. development committee, Department of Earth and Environmental Studies, Montclair State University.
- 1997-2002 Coordinator and sponsor, geography curriculum revision, Department of Earth and Environmental Studies, Montclair State University.
- 1999-2001 Mentor, Student Mentor Leadership Program, Montclair State University.
- 1999 Event organizer, Earth Day 1999, Dept. of Earth & Environmental Studies open house.
- 1998 Honors thesis examiner, Departments of Geology and Anthropology, Oberlin College, Ohio.
- 1997-98 Member, Department Strategic Planning Committee, Dept. of Earth and Environmental Studies, Montclair State University.
- 1997 New faculty selection committee (environmental scientist), Department of Earth and Environmental Studies, Montclair State University.
- 1995-96 Department/Library liaison, Department of Geography, University of Southern California.
- 1990-93 Participant, Arizona Thunderstorm Chasers (AzTC), associated with Southwest Area Monsoon Project (SWAMP).
- 1991 Graduate student representative, Department of Geography, Arizona State University.

*Organizational (state, regional, and national)*

- 2014- Member, Climate and Atmospheric Sciences Standing Committee, Science Advisory Board, State of New Jersey Department of Environmental Protection.
- 2018-20 Member, IAG Host Committee, International Association of Geomorphologists bid for 2022 meeting.
- 2017-18 Organizer, special paper session, "Intersection of Digital Humanities, GIS, and Geoarchaeology", Association of American Geographers Annual Meeting, New Orleans, Louisiana, April 10-14, 2018.
- 2015-17 National Councilor, Association of American Geographers. Appointed, remainder of three year term to the Council. Voted to chair of National Councilors, 2016-17.

- 2013-14 Co-organizer, with Timothy Beach and Casey Allen, four special paper sessions, “Geoarchaeology”, Association of American Geographers Annual Meeting, Tampa, Florida, April 8-12, 2014.
- 2006-13 Executive Board (past president), Middle States Division, Association of American Geographers
- 2013 Judge, student poster session, Paleoenvironmental Change Specialty Group, Association of American Geographers Annual Meeting, Los Angeles, California, April 9-13, 2013.
- 2013 Invited chair, special paper session, “History of Geography I: Expeditions, Field Experiences, and Geographical Societies”, Association of American Geographers Annual Meeting, Los Angeles, California, April 9-13, 2013.
- 2011-12 Organizer and chair, illustrated paper session, “Weathering, Regolith, and Soil Dynamics”, Association of American Geographers Annual Meeting, New York City, February 24-28, 2012.
- 2011-12 Member, Local Arrangements Committee, 2012 New York Annual Meeting, Association of American Geographers.
- 2010-11 Organizer, chair, and discussant, special paper presentation sessions (2 sessions, 9 papers), “Frontiers in Weathering Geomorphology”, Association of American Geographers Annual Meeting, Seattle, Washington, April 12-16, 2011
- 2009-10 Organizer and chair, special paper presentation session, “Environmental Systems of Small Appalachian Lakes”, Association of American Geographers Annual Meeting, Washington, D.C., April 14-18, 2010
- 2007-08 Organizer and chair, special paper presentation session, “Soils as Text in Environmental Change, Paleoenvironments, and Ancient Cultures”, Association of American Geographers Annual Meeting, Boston, Massachusetts, April 15-19, 2008.
- 2007 Chair, topic paper presentation session, “Soils”, Association of American Geographers Annual Meeting, San Francisco, California, April 17-21, 2007.
- 2006-08 Member, Archives and Association History Committee, Association of American Geographers.
- 2003-06 Regional Counselor, Middle States Division, Association of American Geographers. 3-year term on AAG Council.
- 2004-05 Co-organizer and co-chair (with John Kupfer and Steve Yool, University of Arizona), five special paper presentation sessions, “Geosystems, Ecosystems, and Wildfires”, Association of American Geographers Annual Meeting, Denver, Colorado, April 5-9, 2005.
- 2005 Organizer and chair, Blackwell Lecture in Geomorphology and Society, Dr. Peter Birkeland guest speaker, Association of American Geographers Annual Meeting, Denver, Colorado, April 5-9, 2005.
- 2004-05 Chair, Geomorphology Specialty Group, Association of American Geographers.
- 2003-04 Secretary, Geomorphology Specialty Group, Association of American Geographers.
- 2003-04 Member, Local Arrangements Committee, 2004 Annual Meeting, Philadelphia, Pennsylvania, Association of American Geographers.
- 2002-03 Chair, Awards Committee, Geomorphology Specialty Group, Association of American Geographers.
- 2002 Organizer, 2002 Annual Meeting, Montclair, New Jersey, Middle States Division, Association of American Geographers.
- 2001-02 President, Middle States Division, Association of American Geographers.
- 2000-02 Member, Awards Committee, Geomorphology Specialty Group, Association of American Geographers.
- 2000-01 Vice President, Middle States Division, Association of American Geographers.
- 2000-01 Member, Local Arrangements Committee, 2001 Annual Meeting, New York, New York, Association of American Geographers.

- 1999-02 Middle States Division team coach, World Geography Bowl , Annual Meeting of the Association of American Geographers, (New York City, 2001, Pittsburgh, Pennsylvania 2000, Honolulu, Hawai'i 1999).
- 1999-2000 Secretary, Middle States Division, Association of American Geographers.
- 1999 Member, organizing committee, 1999 Middle States Geographers Meeting, West Chester University, West Chester, PA.
- 1998 Member, organizing committee, 1998 Middle States Geographers Meeting, Rutgers University, New Brunswick, NJ.
- 1996-97 Organizer, Geomorphology Specialty Group special sessions (2) on weathering, Association of American Geographers 90<sup>th</sup> Annual Meeting, San Francisco, California.
- 1996-97 Co-organizer (with W. Solecki, Montclair State University), Discussion Panel: "Geographers and Geography in Multidisciplinary Department Settings—Experience and Prospects", Association of American Geographers 94<sup>th</sup> Annual Meeting, Boston, Massachusetts.
- 1994-95 Organizer and chair, Geomorphology Specialty Group special session on weathering, Association of American Geographers 91<sup>st</sup> Annual Meeting, Chicago, Illinois.
- 1994 Volunteer, 1994 GIS/LIS Conference, Phoenix, Arizona.
- 1993-94 Co-organizer and co-chair (with T. R. Paradise, U. Hawaii), Geomorphology Specialty Group special session on weathering, Association of American Geographers 90<sup>th</sup> Annual Meeting, San Francisco, California.
- 1993 Co-leader, International Association of Geomorphologists 3<sup>rd</sup> International Geomorphological Conference, Field Excursion A3: Geomorphology: Mojave Desert to Death Valley.

*Public/Community*

- 2023- Member, New Jersey School of Conservation Research Cooperative
- 2010- CoCoRaHS (Community Collaborative Rain, Hail and Snow Network) reporter, station NJ-MS-42 ("Randolph Twp 2.0 E").
- 2010- Member, Climate and Atmospheric Sciences Standing Committee, Science Advisory Board, New Jersey Department of Environmental Protection.
- 1999- SKYWARN storm spotter for the National Weather Service.
- 2020-21 Friends of the New Jersey School of Conservation programming committee
- 2013 Guest judge, Montclair Society of Engineers, student Robotics competition November 15.
- 2010-12 Member, Long Range Planning Committee, Shongum Lake Property Owners Association, Randolph, New Jersey.
- 2007-09 Advisor, Northeast School Global Studies Magnet Program (GK-5) geography curriculum, Montclair, New Jersey
- 2006 Consultant (*pro bono*), Friends of Anderson Park, Montclair, New Jersey
- 2006 Judge, Science Olympiad, Montclair State University, Spring 2006
- 2004 EARTH Academy Roundtable member, Career Learning Academies and Smaller Schools, Paterson Public Schools, New Jersey, Spring, 2004
- 1999-2002 Volunteer, Teatown Lake Reserve, Ossining, New York.
- 1997-99 Volunteer, Poricy Park Nature Center, Middletown, New Jersey.
- 1997-99 Consultant (*pro bono*), Poricy Park Nature Center, Middletown, New Jersey.
- 1992-94 Judge and moderator, Arizona State Geography Bee, Arizona State University.
- 1991 Judge, Central Arizona Regional Science and Engineering Fair, Arizona State University.

## Citations in media and press

- 6/8/2023 “Canadian wildfire smoke blankets New Jersey, East Coast”, reported by Briana Vannoizzi (anchor), NJ Spotlight News. <https://www.njspotlightnews.org/video/canadian-wildfire-smoke-blankets-new-jersey-east-coast/>
- 8/4/2022 “Urban heat island in New Jersey.” Interviewed by Buki Elegbede, reported by Brenda Flanagan. NJ Spotlight News, NJ PBS and WNET 13 PBS (5:30, 6:00, 7:30, 11:00 evening broadcasts).
- 7/30/2022 “New growth already sprouting after massive Pinelands wildfire. Why burning can be good if done right.” Steven Rodas, nj.com, July 30, 2022. <https://www.nj.com/news/2022/07/new-growth-already-sprouting-after-massive-pinelands-wildfire-why-burning-can-be-good-if-done-right.html> (re: forest fire impacts and hazards)
- 7/20/2021-7/27/2021 Commenting on the wildfire smoke pollution in the metro area:
- “West Coast wildfires causing haze, air quality concerns over Tri-State Area”. Recorded television interview with Nick Caloway, CBS 2News, New York (5:00 and 11:00 news, and <https://newyork.cbslocal.com/2021/07/21/officials-issue-air-quality-health-advisory-for-n-y-due-to-wildfires-in-california-canada/>).
- “Western wildfires create nationwide air pollution”. Recorded television interview, CBS Evening News with Norah O’Donnell (national broadcast). <https://www.cbsnews.com/news/wildfires-california-air-quality-pollution-nationwide/>
- “Smoke, ash from Western wildfires greatly impacting New Jersey air quality”. Recorded television interview with Marci Ruben, News12 New Jersey. <https://newjersey.news12.com/smoke-ash-from-western-wildfires-greatly-impacting-new-jersey-air-quality>
- “As climate change fuels more fires out West, are dangerous smoke levels new norm for NJ?” Scott Fallon, *northjersey.com* July 21, 2021. (<https://www.northjersey.com/story/news/environment/2021/07/22/wildfire-smoke-in-nj-air-quality-dangerous-smoke-levels/8040461002/>)
- “New York air quality among worst in world as haze from western wildfires shrouds city”. Oliver Milman, *The Guardian* July 21, 2021. <https://www.theguardian.com/us-news/2021/jul/21/new-york-air-quality-plunges-smoke-west-coast-wildfires>
- Live interview on 1010WINS news radio (New York City), with on-air anchor Brigitte Quinn, July 27, 2021.
- 9/28/2020 “New Jersey cities are hotter than ever. Racism is as much to blame as climate change.” Michael Sol Warren and Charles Wohlforth, *The Star Ledger / NJ.com* in print (front page) and online. <https://www.nj.com/news/2020/09/as-njs-summer-intensify-how-racism-turned-up-the-heat-on-states-most-vulnerable.html> Simultaneously released on *Climate Central*, <https://www.climatecentral.org/news/climate-change-and-concrete-turn-up-heat-on-vulnerable-communities-in-new-jerseys-cities> (re: vegetation’s and urban gardens’ role in mediating urban heat islands)

- 1/27/2017 “Learn about Montclair’s Ice Age origins.” Mollie Shauger, *The Montclair Times / NorthJersey.com*, access online  
<http://www.northjersey.com/story/news/essex/montclair/2017/01/27/learn-montclairs-ice-age-origins-feb-7/97104534/> (re: upcoming public lecture and natural history of the local area)
- 1/13/2011 “Local butterfly raiser says climate change is a factor in Monarch migration.” Tanya Drobness, *The Montclair Times*, access online  
[http://www.northjersey.com/news/environment/113436919\\_Taking\\_an\\_earlier\\_flight\\_.html](http://www.northjersey.com/news/environment/113436919_Taking_an_earlier_flight_.html) (re: comment on climate change, phenology, and intensity of storms).
- 11/6/2003 “After the flames.” P.N. Spotts, *The Christian Science Monitor*, access online  
[www.csmonitor.com](http://www.csmonitor.com). (re: recent research on ecology after severe wildfires)
- 6/12/2001 “Millennium Pipeline impact site field trips, Teatown Lake Reservation”. (Westchester County, New York, Channel 12 News)
- 4/12/2001 “A human face put on global warming tonight at the Screening Zone.” S. DeVries, *The Montclair Times*, p. A1, C80. (re: recent air quality policies and global warming)
- Winter 2001 “NSF research grant provides opportunity for graduate faculty and student.” T. Macaluso, *Montclair State University Graduate Exchange*, p. 1. (re: Paleoclimate research project on the Chinese Loess Plateau.)
- 4/12/1999 “Professors discuss the here and now.” *Montclair State University Insight*, v. 9, no.26, p.1. (re: use of current events in courses)
- 3/3/1999 “La Niña”. New Jersey Channel 12 News.
- 11/20/1997 “Yogi goes to college.” *Caldwell, NJ Progress*. (re: comparison of Martian rocks with those of new stadium site)
- 8/20/1997 “Prof’s in the ballpark on Yogi.” K. MacPherson, *New Jersey Star-Ledger*, p. 1. (re: comparison of Martian rocks with those of new stadium site)
- 8/13/1997 “Yogi Rock Found on Mars Similar to Rocks Underneath ‘Yogi’ Berra Stadium, Geologist Says.” *Science Daily*, [www.sciencedaily.com](http://www.sciencedaily.com). (re: comparison of Martian rocks with those of new stadium site)