

# Andrada E. Ivanescu

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## Employment

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2020 – Present	Associate Professor, Montclair State University, Montclair, New Jersey, USA
2014 – 2020	Assistant Professor, Montclair State University, Montclair, New Jersey, USA
2008 – 2014	Assistant Professor, East Carolina University, Greenville, North Carolina, USA

## Education

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2008	PhD, Statistics, Florida State University, USA
2005	MS, Statistics, Florida State University, USA
2003	BS, Economics, Universitatea de Vest, Romania

## Publications

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1. Solhjoo, S., Punjabi, N. M., **Ivanescu, A. E.**, Crainiceanu, C., Gaynanova, I., Wicken, C., Buckenmaier, C. III, Haigney, M. C. 2021. [Methadone destabilizes cardiac repolarization during sleep](#), *Clinical Pharmacology & Therapeutics* 110(4): 1066-1074.
2. Huang, L., Bai, J., **Ivanescu, A. E.**, Harris, T., Maurer, M., Green, P., and Zipunnikov, V. 2019. [Multilevel matrix-variate analysis and its application to accelerometry-measured physical activity in clinical populations](#). *Journal of the American Statistical Association* 114(562): 553–564.
3. Smirnova, E., **Ivanescu, A. E.**, Bai, J., and Crainiceanu, C. M. 2018. [A practical guide to big data](#). *Statistics & Probability Letters* 136: 26–29.
4. **Ivanescu, A. E.** 2018. [Function-on-function regression for two-dimensional functional data](#). *Communications in Statistics – Simulation and Computation* 47(9): 2656–2669.
5. Alexander, M., Pisut, G., and **Ivanescu, A. E.** 2017. [Using demographic variables to understand body size perception and implications for retailers](#). *Family and Consumer Sciences Research Journal* 46(2): 129–143.
6. **Ivanescu, A. E.**, Crainiceanu, C. M., and Checkley, W. 2017. [Dynamic child growth prediction: a comparative methods approach](#). *Statistical Modelling* 17(6): 468–493.
7. **Ivanescu, A. E.** 2017. [Adaptive inference for the bivariate mean function in functional data](#). *Advances in Data Science and Adaptive Analysis* 9(3): 1–29.
8. Bai, J., **Ivanescu, A. E.**, and Crainiceanu, C. M. 2017. [Discussion of the paper ‘A general framework for functional regression modelling’](#). *Statistical Modelling* 17(1-2): 36–44.
9. Grajeda, L. M., **Ivanescu, A. E.**, Saito, M., Crainiceanu, C. M., Jaganath, D., Gilman, R. H., Crabtree, J. E., Kelleher, D., Cabrera, L., Cama, V., and Checkley, W. 2016. [Modeling subject-specific childhood growth using linear mixed-effect models with cubic regression splines](#). *Emerging Themes in Epidemiology* 13:1–13.

10. Donnelly, J., Horn, R.R., Young, M. and **Ivanescu, A.E.** 2016. [The effects of the Yes You Can! curriculum on the sexual knowledge and intent of middle school students.](#) *Journal of School Health* 86(10): 759–765.
11. **Ivanescu, A. E.**, Staicu, A.-M., Scheipl, F., and Greven, S. 2015. [Penalized function-on-function regression.](#) *Computational Statistics* 30(2): 539–568.
12. **Ivanescu, A. E.**, Li, P., George, B., Brown, A. W., Keith, S. W., Raju, D., and Allison, D. B. 2016. [The importance of prediction model validation and assessment in obesity and nutrition research.](#) *International Journal of Obesity* 40: 887–894.
13. Thomas, D. M., **Ivanescu, A. E.**, Martin, C. K., Heymsfield, S. B., Marshall, K., Bodrato, V. E., Williamson, D. A., Anton, S. D., Sacks, F. M., Ryan, D. and Bray, G. A. 2015. [Predicting successful long-term weight loss from short-term weight-loss outcomes: new insights from a dynamic energy balance model \(The POUNDS Lost study\).](#) *The American Journal of Clinical Nutrition* 101(3): 449–454.
14. Sawrar, H., Chapman III, W. H., Pender, J. R., **Ivanescu, A. E.**, Drake III, A. J., Pories, W. J., Dar, M. S. 2014. [Hypoglycemia after Roux-en-Y gastric bypass: The BOLD experience.](#) *Obesity Surgery* 24(7): 1120–1124.
15. **Ivanescu, A. E.** 2013. [A note on bivariate smoothing for two-dimensional functional data.](#) *International Journal of Statistics and Probability* 2(2): 102–111.
16. Curry, J. D., Norbury, J. W., Cartwright, M. S., **Ivanescu, A. E.**, Moore, D. 2013. [Comparison of two different ultrasonographic parameters for the diagnosis of carpal tunnel syndrome.](#) *Physical Medicine and Rehabilitation: Musculoskeletal and Sports Medicine* 5, 9S.
17. Pratt, K. J., Lazorick, S., Lamson, A. L., **Ivanescu, A. E.**, and Collier, D. N. 2013. [Quality of life and BMI changes in youth participating in an integrated pediatric obesity treatment program.](#) *Health and Quality of Life Outcomes* 11(116): 1–9.
18. Perryman, T., Carter, A., S. Messinger, D., S., Stone, W., L., **Ivanescu, A. E.**, Yoder, P. 2013. [Brief Report: Parental child-directed speech as a predictor of receptive language in children with autism symptomatology.](#) *Journal of Autism and Developmental Disorders* 43(8): 1983–1987.
19. Alexander, M., Pisut, G., and **Ivanescu, A. E.** 2012. [Investigating women’s plus-size body measurements and hip shape variation based on SizeUSA data.](#) *International Journal of Fashion Design, Technology and Education* 5(1): 3–12.
20. Elliott, S. J., **Ivanescu, A. E.**, Leland, N., Fogo, J., Painter, J. A., and Trujillo, L. 2012. [Feasibility of interdisciplinary community-based fall risk screening.](#) *American Journal of Occupational Therapy* 66: 161–168.
21. Bunea, F., **Ivanescu, A. E.**, and Wegkamp, M. H. 2011. [Adaptive inference for the mean of a Gaussian process in functional data.](#) *Journal of the Royal Statistical Society - Series B (Statistical Methodology)* 73(4) 531–558.
22. Sharma, S., **Ivanescu, A. E.**, and Srivastava, R. 2009. [Utility of modified mallampati score in predicting obstructive sleep apnea in African-Americans.](#) *CHEST* 136(4), 33S.

## Talks & Conference Presentations

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- 2025 Econometrics and Statistics (EcoSta 2025) hybrid conference, Tokyo, Japan. *e-Talk*: “Statistical analysis of physical activity from NHANES”
- 2024 International Biometric Society, Eastern North American Region (ENAR 2024) Spring Meeting, Baltimore, MD. *Talk*: “Outlier detection in dynamic functional models”
- 2022 The University of the West Indies, Seminar in the Department of Mathematics. *Talk*: “Statistical analysis of heart variability from electrocardiogram data during sleep”
- 2021 International Biometric Society, Eastern North American Region (ENAR 2021) Spring Meeting, e-Conference. *Talk*: “Statistical analysis of heart variability from electrocardiogram data during sleep”
- 2019 The College of New Jersey, Seminar in the Department of Mathematics and Statistics. *Talk*: “Outlier detection in dynamic functional models”
- 2019 International Biometric Society, Eastern North American Region (ENAR 2019) Spring Meeting, Philadelphia, PA. *Poster*: “Computational methods for dynamic prediction”
- 2018 Joint Statistical Meetings (JSM 2018), Vancouver, Canada, BC. *Topic Contributed Papers: Novel developments in functional data analysis*. *Talk*: “Outlier detection in dynamic functional models”
- 2017 Joint Statistical Meetings (JSM 2017), Baltimore, MD. *Invited Papers: Dynamic methods for functional data with application to clinical data analysis*. *Talk*: “Identification of outliers in dynamic functional regression for child growth studies”
- 2017 Southern Regional Council on Statistics (SRCOS) Summer Research Conference (SRC 2017), Jekyll Island, GA. *Invited Session: Functional Data Analysis*. *Talk*: “Dynamic child growth prediction: a comparative methods approach”
- 2017 Montclair State University, Seminar in the Department of Mathematical Sciences. *Talk*: “Dynamic child growth prediction: a comparative methods approach”
- 2017 International Biometric Society, Eastern North American Region (ENAR 2017) Spring Meeting, Washington, DC. *Invited Papers: Nonparametric methods for functional data with application to clinical data analysis*. *Talk*: “Dynamic child growth prediction: a comparative methods approach”
- 2016 Joint Statistical Meetings (JSM 2016), Chicago, IL. *Topic Contributed Papers: Functional and longitudinal data analysis methods*. *Talk*: “Dynamic child growth prediction: a comparative methods approach”
- 2015 3<sup>rd</sup> Annual ASA New Jersey Chapter/ Bayer Statistics Workshop, Whippany, NJ. *Poster*: “Simulation studies for functional dynamic curve prediction”
- 2015 Joint Statistical Meetings (JSM 2015), Seattle, WA. *Contributed Papers: Advances in High-Dimensional Data Nonparametrics*. *Talk*: “Inference for nonparametric function-on-function regression”
- 2015 Southern Regional Council on Statistics (SRCOS) Summer Research Conference (SRC 2015), Carolina Beach, NC. *ASA/Kutner faculty invited paper and poster session*. *Poster*: “Child growth prediction: a comparative methods approach”
- 2015 International Biometric Society, Eastern North American Region (ENAR 2015) Spring Meeting, Miami, FL. *Contributed Papers: Nonparametric Methods*. *Talk*: “Estimation and confidence bands for nonparametric regression with functional responses and multiple scalar covariates”

## Talks & Conference Presentations

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- 2014 The 70<sup>th</sup> Annual Deming Conference on Applied Statistics, Atlantic City, NJ. *Poster*: “Analysis of regression with bivariate predictors and applications to an association between electricity demand and temperature”
- 2014 William Patterson University, Seminar in the Department of Mathematics. *Talk*: “Penalized function-on-function regression”
- 2014 Joint Statistical Meetings (JSM 2013), Montreal, Canada. *Contributed Papers: Functional Analysis and Mixed Models*. *Talk*: “Penalized function-on-function regression”
- 2013 Statistical and Applied Mathematical Sciences Institute (SAMS), Research Triangle Park, NC. *Program on Low-Dimensional Structure in High-dimensional Systems (LDHS)*. *Poster*: “Examples of sparse structures in big data and statistical inference for images”
- 2013 Statistical and Applied Mathematical Sciences Institute (SAMS), Research Triangle Park, NC. *Neuroimaging Data Analysis (NDA) Program*. *Poster*: “Statistical methods for group effects in functional regression with applications to DTI brain tractography”
- 2012 Joint Statistical Meetings (JSM 2012), San Diego, CA. *Contributed Papers: Methods for Multivariate Data*. *Talk*: “Inference for the bivariate mean function for functional data with a two-dimensional domain”
- 2011 Statistical Methods for Very Large Datasets Conference, Baltimore, MD. *Poster*: “Bivariate mean function estimation for functional data with a two-dimensional domain”
- 2011 International Biometric Society, Eastern North American Region (ENAR 2011) Spring Meeting, Miami, FL. *Contributed Papers: Functional Data Analysis*. *Talk*: “Bivariate surface estimation for functional data”
- 2010 Joint Statistical Meetings (JSM 2010), Vancouver, Canada. *Topic Contributed Papers: New Directions in Functional Data Analysis*. *Talk*: “Thresholded projection estimator for the mean function in functional data”
- 2010 Statistical and Applied Mathematical Sciences Institute (SAMS), Research Triangle Park, NC. *Analysis of Object Oriented Data Workshop*. *Poster*: “Estimating the mean function in functional data”
- 2009 New Researchers in Statistics and Probability Conference, Baltimore, MD. *Talk*: “Adaptive inference for sparse signals in functional data”
- 2009 International Biometric Society, Western North American Region (WNAR 2009) Meeting, Portland, OR. *Institute of Mathematical Statistics (IMS) Invited Session: Functional Data Analysis*. *Talk*: “Adaptive inference for sparse signals in functional data”

## Conference Program Session Organizer & Service

1. Chair for the ENAR Contributed Papers session “*Statistical considerations for optimal treatment*”, E-conference. International Biometric Society, Eastern North American Region (ENAR 2020) Spring Meetings.
2. Organizer for the Topic Contributed Papers session “*Novel developments in functional data analysis*”, Vancouver, Canada. Joint Statistical Meetings (JSM 2018).
3. Organizer for the Invited Papers session “*Functional data analysis in biosciences*”, Atlanta, GA. International Biometric Society, Eastern North American Region (ENAR 2018) Spring Meetings.
4. Organizer for the Invited Papers session “*Dynamic methods for functional data with application to clinical data analysis*”, Baltimore, MD. Joint Statistical Meetings (JSM 2017).
5. Organizer for the Topic Contributed Papers session “*Applications of functional data analysis to medical studies*”, Baltimore, MD. Joint Statistical Meetings (JSM 2017).
6. Chair for the Topic Contributed Papers session “*Applications of functional data analysis to medical studies*”, Baltimore, MD. Joint Statistical Meetings (JSM 2017).

7. Organizer for the Invited Papers session “*Nonparametric methods for functional data with application to clinical data analysis*”, Washington, DC. International Biometric Society, Eastern North American Region (ENAR 2017) Spring Meetings.
8. Member in Social Media Committee (2016) International Biometric Society, Eastern North American Region (ENAR).
9. Organizer for the Topic Contributed Papers session “*Functional and longitudinal data analysis methods*”, Chicago, IL. Joint Statistical Meetings (JSM 2016).
10. Chair for the Biometrics Section Contributed Papers session “*Statistical methods for functional data*”, Chicago, IL. Joint Statistical Meetings (JSM 2016).
11. Faculty mentor for Virtual Summer Internship Program (2016). American Statistical Association (ASA) NJ Chapter.
12. *JSM Docent*, Chicago, IL. Joint Statistical Meetings (JSM 2016).
13. *JSM Docent*, Seattle, WA. Joint Statistical Meetings (JSM 2015).
14. Organizer for the Invited Papers session “*Recent advances in the analysis of functional data*”, San Diego, CA. Joint Statistical Meetings (JSM 2012).
15. Chair for the American Statistical Association Biometrics Section Contributed Papers session “*Variable and model selection*”, Miami, FL. International Biometric Society, Eastern North American Region (ENAR 2011) Spring Meeting.

## Grants

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2019	Project Director: <i>Dynamic child growth curve modeling and outlier detection</i> . Johns Hopkins University, Subcontract. Percent support: 7% from annual salary (2019)
2019	Project Director: <i>Statistical analysis of QTVI data during sleep</i> . Johns Hopkins University, Subcontract. Percent support: 13% from annual salary (2019)
2015	Principal Investigator: <i>Child growth curve modeling</i> . Johns Hopkins University, Subcontract. Percent support: 8.3% from annual salary (2015)
2013 – 2014	Co-Investigator: <i>NADPH oxidase and microvascular dysfunction in obesity</i> . National Institutes of Health (NIH), R15. Percent support: 2.5% from annual salary (2013-2014)

## Associations

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ACM	Association for Computing Machinery
ASA	American Statistical Association
CWSDS	Caucus for Women in Statistics and Data Science
ENAR	Eastern North American Region of the International Biometric Society
IBS	International Biometric Society
IMS	Institute of Mathematical Statistics