Helen M. Marcus Roberts
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Professor
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EDUCATION:

Ph.D. Biostatistics	Bloomberg School of Public Health The John Hopkins University	1964-1969
B.S. Mathematics	City College of New York CUNY	1962-1964
Mathematics	University of Buffalo	1960-1962

PROFESSIONAL EXPERIENCE

Chair, Mathematical Sciences	Montclair State University	1999-Present
Full Professor Mathematical Sciences	Montclair State University	
Graduate Coordinator, Mathematical Sciences	Montclair State University	1982-1999
Visiting Assoc. Professor Operation Research	Cornell University	1979-1980
Associate Professor, Mathematical Sciences	Montclair State University	1977-1982
Assistant Professor Mathematical Sciences	Montclair State University	1972-1977
Assistant Professor, Statistics	University of California	1970-1972

PUBLICATIONS

Selected Publications
1. Marcus-Roberts, H. "On Simplifying Assumptions in Energy Models," Energy*: Mathema* Publications, 268-272, (1976).
2. Roberts, F.S., and H. Marcus-Roberts. "Efficiency of Energy Use in Obtaining Food II: *A* Roberts and M. Thompson (eds.). *Modules in Applied Mathematics: Life Science Models* Verlag, 286-349, (1983).

3. Marcus-Roberts, H., F.S. Roberts, and B. Tesman. "Basic Counting Rules - Chapter," Applied *Combinatorics*. Taylor and Francis, 15-118, (2009).
4. Marcus-Roberts, H., "A Comparison of Some Deterministic and Stochastic Models of Population Growth," H. Marcus-Roberts and M. Thompson (eds.), *Modules in Applied Mathematics: Life Science Models,* Volume 4, Springer-Verlag, 32-77, (1983).
5. Fishburn, P. C., H. Marcus-Roberts, and F. S. Roberts. "Unique finite Differences in Measurement," *SIAM Journal of Discrete Mathematics*, 1, 334-354, (1988)
6. Pai, A.C., and H. Marcus-Roberts. *Genetics: Its Concepts and Implications*, Prentice-Hall, (1981).
7. Fishburn, P.C., F.S. Roberts, and H. Marcus-Roberts. "Van Lier Sequences," *Discrete Applied Mathematics,* 27, 209-220, (1990).
8. Marcus-Roberts, H., and M. Thompson (eds). *Modules in Applied Mathematics: Life Science Models* Volume 4, Springer-Verlag *(*1983) and Chinese Translation National University of Defense Technology, University Press, Changsha, Hunan, Peoples Republic of China, (1997).
9. Marcus-Roberts, H., and F.S. Roberts. "Meaningless Statistics," *Journal of Educational Statistics,* 12, 383-94, (1987).
10. Marcus-Roberts, H., "DNA, RNA, and Random Mating: Simple Applications of the Multiplication Rule," H. Marcus-Roberts and M. Thompson (eds.), *Modules in Applied Mathematics: Life Science Models,* Volume 4, Springer-Verlag, 218-237, (1983).

GRANTS

DOE grant and the one with Jennifer from DOL

PROFESSIONAL MEMBERSHIPS

American Statistical Association
Mathematical Association of America

STUDENT RESEARCH

Ed.D. DISSERTATION committee member
Joy Brokes
Kristie Prokop
Laura Sulllivan
Jodie Miller, in progress
Patricia Garruto, in progress

Ed.D. QUALIFYING EXAM committee member
Arpi Lajinian , Portfolio defense.
Anthony Piparo, Portfolio defense

ADVISORY BOARD

Traders to Teachers – Mathematics Certification Program for unemployed people from the financial sector.

$50,000 N.J. Department of Education – develop Mathematics Certification Program for unemployed people from the financial sector.

Synergistic Activities
1. Chair, National Academy of Science Panel on National Science Foundation Graduate Fellowships in Applied Mathematics, 1980 and 1981; member of the panel in 1979.
2. SIAM (Society for Industrial and Applied Mathematics) Lecturer, 1979 - 83.
3. University General Education (Gen Ed 2002) Committee, chair 1994 - 1998
4. Gen Ed 2002 Implementation Committee, chair 2001 – 2003, member 1999 – 2003
5. Invited participant, Workshop on Mathematical Modeling of Infectious Diseases of Africa, Stellenbosch University, South Africa, 2007
6. Co-chair Trader to Teachers Initiative, 2008 – 2010
7. N. J. Department of Education – Mathematics Task Force, Spring 2009
8. Invited participant, Workshop on Mathematical Modeling of Infectious Diseases of Africa, Stellenbosch University, South Africa, 2007
9. Presenter American Mathematical Society Workshop for Mathematics Department Chairs, 2011-2013.