Dámaris Santana Morant
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EDUCATION

University of Florida, Gainesville FL
Degree: **Ph.D.**, August 2005
Field: Statistics

Cornell University, Ithaca NY
Degree: **M. S.**, August 2001
Field: Biometry

University of Puerto Rico, Rio Piedras Puerto Rico
Degree: **M. S.**, July 1995
Major: Applied Mathematics

University of Puerto Rico, Humacao Puerto Rico
Degree: **B. S.**, May 1989
Major: Computational Mathematics

PROFESSIONAL EXPERIENCE

University of Puerto Rico, Mathematics Department, Mayagüez, Puerto Rico 00681
August 2005 - Present
Associate Professor

University of Puerto Rico, Mathematics Department, Humacao, Puerto Rico 00791
August 1995 - May 1998
Instructor

University of Puerto Rico, Mathematics Department, Río Piedras, PR 00931
August 1992 - July1995
Teaching Assistant

Mediafax, Inc., 1606 Ponce De Leon Ave., Santurce, PR 00936.
November 1989 - August 1992
Senior System Programmer/Analyst

National Bureau of Standards, Gaithersburg, MD 20899
June 1988 - July 1988
Summer Internship

RESEARCH PROJECTS

1. Bayesian Mapping of Multiple Quantitative Trait Loci
   Ph.D. thesis, University of Florida, August 2005.
2. An MCEM algorithm for the state-space model with missing observations
   M.S. thesis, Cornell University, August 2001.
3. Canonical correspondence analysis applied to tree abundance in NY state
   Environmental Statistics course project, Fall 2000. Presented at the Cornell-Harvard
   Biostatistics Symposium, 2000.
4. Temporal and Spatial Trends in the Water Quality Data of the Biobio River, Chile
   Environmental Statistics course project, Spring 1999. Presented at the Cornell-Harvard
   Biostatistics Symposium, 1999.
5. Improved Inference in Environmental Risk Analysis of Cadmium in Sewage Sludge
   Environmental Statistics course project, Fall 1998. Presented at the Cornell-Harvard
   Biostatistics Symposium, 1998.
6. The File Redistribution Scheduling Problem in a Fully Connected Network
   M.S. thesis, University of Puerto Rico, July 1995.

PUBLICATIONS

1. Evaluation of common bean for drought tolerance in Juana Diaz, Puerto Rico with T. Porch,
   V. Builes, and E. Harmsen, Journal of Agronomy and Crop Science, July 2009.
2. Modelo de Investigación Acción como Comunidad de Aprendizaje, with C. Bellido and K.
   Wayland, El Sol, 1 (Año L), 2007.
3. Solutions Manual on CD-ROM for Casella and Berger's Statistical Inference, Second
   Edition, with G. Casella, R. L. Berger, 2002.

RECENT PRESENTATIONS

1. "Mathematics and Nature", workshops for Talented Students, 2009
2. "Mathematics and Nature", workshops for Students at Acceso Pa'l Éxito Program, 2009
3. "Regression", workshop for Mathematics Teachers, 2008
4. "Central Limit Theorem and Applications", workshop for Mathematics Teachers with R.
   Macchiavelli, 2008
5. "Statistics", workshop for Mathematics Teachers, 2008
6. "Mathematics and Nature", workshop for Talented Students, 2008
7. "Probability in Games", workshop for Mathematics Teachers, 2008
8. "Combinatory", workshop for Mathematics Olympiads' students, 2008
9. XXIII SIDIM, " Modelo de Investigación Acción como Comunidad de Aprendizaje", with
   Dr. Keith Wayland and Dra. Carmen Bellido, Carolina Puerto Rico, 2008
10. "Mathematics and Nature", workshops for Talented Students, 2007
11. "Probability", workshop for Mathematics Teachers, 2007
12. "Regression", workshop for Mathematics Teachers, 2007
13. "Data Analysis" workshop Mathematics Teachers, 2007
14. SACNAS, "Bayesian Mapping of Multiple QTL", Tampa Florida, 2006
15. XXI SIDIM, "Bayesian Mapping of Multiple QTL", Caguas Puerto Rico, 2006

16. First Science and Technology CoHemis Conference, "Bayesian Mapping of Multiple QTL", Mayagüez, Puerto Rico 2006
17. "Mathematics and Nature", 4 workshops for Mathematics Teachers around Puerto Rico, 2006

GRANTS

1. Puerto Rico Experiences in Mathematics and Undergraduate Research (PREMUR) at the University of Puerto Rico-Mayaguez, Summer 2007, National Security Agency, ($96,000) Co-PI