

## **REBECCA DYANNE WOOTEN, PH.D.**

11311 N 50<sup>th</sup> St. APT 2  
TAMPA, FL 33617  
(813) 985-4241

### **OBJECTIVE**

To obtain a position as an advance postdoctoral research position that utilizes my Mathematics and Statistics skills as well as a position that is challenging and educational.

### **RESEARCH INTERESTS**

Statistical Analysis (**Parametric** and **Non-parametric**), Statistical Modeling (**Univariate**, **Bivariate** and **Multivariate**), Time Series Analysis (**Stationary** and **Non-stationary**), Computerized Algorithms for Statistical Analysis, and Research emphasizing **Environmental Studies**, **Geo-Physics**, **Geo-Engineering**, **Health**, **Life Science**, and **Education**, studying such topics as **Hurricanes**, **Lightning**, **Rainfall**, **Floods**, **Red Tide**, and **Volcanoes**.

### **SKILLS**

*Languages:* Formal training in **Basic** and **FORTRAN**; working knowledge of **Visual Basic**, **C/C++**, **HTML**, **EXCEL** and basic **Java**.

*Programs:* Have working knowledge of **NORTON**, **WORKS**, **WORDPERFECT**, **MICROSOFT WORKS**, **WORD**, **EXCEL**, **PUBLISHER**, **POWER POINT**, **PAGE MAKER**, **SUPER PAINT**, and **SAS ANALYST**; working knowledge of linear and non-linear analysis as well as **ANOVA** both simple and factorial, both in **EXCEL** and **SAS**.

*Operating Systems:* Have experience with **DOS**, **WINDOWS** and **UNIX**.

## **EXPERIENCE**

08/94 to 05/96 and 08/97 to Present  
*University of South Florida, Tampa, FL*

### **ADJUNCT FACULTY**

Work as an adjunct instructor, teaching Introduction to Statistics I; have also taught a number of courses including: College Trigonometry, College Algebra, Precalculus, Calculus (I, II and III/All levels), Finite Math, Number Theory, Technology Seminar, Basic Statistics and Introduction to Statistics (I and II).

07/98 to Present  
*The Pedagogue, Tampa, FL*

### **PRIVATE TUTOR/WEBMASTER**

Work tutoring high school students as well as acting as Webmaster of **Acceber** and Coordinator of the **Pedagogue**

**WEBSITES:** <http://www.acceber.net> and <http://www.acceber.net/Pedagogue>.

01/02 to 12/02  
*Hillsborough Community College, Tampa, FL*

### **ADJUNCT INSTRUCTOR**

Worked teaching Intermediate Algebra

08/00 to 01/01  
*Palmer Tennis Academy Tampa, FL*

### **MATHEMATICS INSTRUCTOR**

Worked teaching pre-calculus

06/96 to 06/97  
*Florida State University, Tallahassee, FL*

### **GRADUATE TEACHING ASSISTANT**

Worked as a teaching assistant

08/91 to 05/96  
*Project Thrust - U.S.F, Tampa, FL*

### **TUTOR**

Worked tutoring all levels of mathematics including some computer languages such as FORTRAN and some engineering courses such as Linear Systems, also assisted in general office duties, data entry and statistical work.

## **PERSONAL INFORMATION**

Please visit <http://chuma.cas.usf.edu/~wooten/>

## EDUCATION

*University of South Florida, Tampa, FL*

### POST DOCTORAL

Graduated May 1996 with both a B.A. and a M.A in Mathematics

Graduated December 2006 with a Ph.D. in Statistics: Environmental Studies

Dissertation Title: “**STATISTICAL ENVIRONMENTAL MODELS: HURRICANES, LIGHTNING, RAINFALL, FLOODING, RED TIDE AND VOLCANOES.**”

*Specialization:* Applied Statistics in Environmental Studies

*Additional studies:* Combinatorics, Graph Theory, Logic, Algebra, and Topology

*Florida State University, Tallahassee, FL*

### Doctorial Student 1997-1998

Worked toward taking my preliminaries in Mathematics before returning to the University of South Florida

## PUBLICATIONS

- “**STATISTICAL ANALYSIS AND MODELING OF LIGHTNING**”, Int. Journal of Neural, Parallel & Scientific Computation, Vol. 16, 2008
- “**A MARKOVIAN ANALYSIS OF HURRICANE TRANSITIONS**”, Int. Journal of Neural, Parallel & Scientific Computation, Vol. 16, 2008
- “**A PROPOSED NEW SCALE TO IDENTIFY THE CATEGORY OF A HURRICANE’S STATUS**”, to appear in Proc. of the Fifth World Congress of IFNA, (R) Orlando, FL 2008
- “**STATISTICAL ANALYSIS AND MODELING OF RED TIDE BLOOMS**”, in review with the Florida Scientist

## RESEARCH MANUSCRIPTS

- “Parametric Analysis of Carbon Dioxide in the Atmosphere”
- “Statistical, Modeling the Conditions under which Tropical Storms Form: Estimating the Birth of a Storm”
- “Bivariate Probability Distribution of Tephra Fallout”
- “Linear and Non-Linear Statistical Modeling of Hurricane Force Winds: Hurricane Intensity (Maximum Sustained Winds)”
- “Flooding and Rainfall in the State of Florida”

## **ORGANIZATIONS**

- 1993        ***Pi Mu Epsilon***
- 1992        ***Mathematics Association of America***
- 2004        ***American Statistical Association***
- 2005        ***Urban Scholars Outreach Program (USOP)***  
Academic Advisor, January 2007 to Present
- 2005        ***Geological Society of America***
- 2006        ***National Honor Society***
- 2007        ***Dr. A.N.V. Rao Gurukulam Program (RGP)***  
Academic Advisor, August 2007 to Present
- 2008        ***International Federation of Nonlinear Analyst (IFNA)***  
Board of Directors, member of the Executive Committee, Secretary