

# Bahaeddine Taoufik

Department of Mathematics  
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## Education

- **Ph.D., Statistics**, The Pennsylvania State University *December 2016*
- **M.Sc., Statistics**, Sorbonne University, Campus Pierre and Marie Curie, Paris VI *September 2004*
- **B.Sc., Mathematics**, Sorbonne University, Campus Pierre and Marie Curie, Paris VI *June 2001*

## Current Position

- Assistant Professor of Mathematics,  
Saint Joseph's University, Pennsylvania. *Fall 2019 to present*

## Other Professional Position(s)

- Assistant Professor of Data Science and Statistics,  
University of Lynchburg, Virginia. *Fall 2017 to Summer 2019*
- Full Time Lecturer of Statistics (Management Systems),  
Gabelli School of Business (Graduate Program)  
Fordham University, New York. *Fall 2016 to Summer 2017*

## Manuscripts

- (with P. Kokoszka, H. Miao and M. Reimherr) "DYNAMIC FUNCTIONAL REGRESSION WITH APPLICATION TO THE CROSS-SECTION OF RETURNS", *Journal of Financial Econometrics*, Volume 16, Issue 3 (2018), 461-485.
- (with M. Reimherr and B. K. Sriperumbudur)"OPTIMAL PREDICTION FOR ADDITIVE FUNCTION-ON-FUNCTION REGRESSION", *Electronic Journal of Statistics*, Volume 12, Number 2 (2018), 4571-4601.

## Grants and Awards

- William Harkness Graduate Student Travel Award to attend the Joint Statistical Meetings 2015. Awarded by the Department of Statistics, Pennsylvania State University.
- Department of Mathematics at Columbia University Travel Award to attend the Stochastic Portfolio Theory and Related Topics, New York City , New York, May 8-9, 2015.
- American Statistical Association (ASA) Graduate Student Travel Award to attend the Joint Statistical Meetings 2014.

## Conferences

### *Presentation*

- Joint Statistical Meeting (JSM), Denver, CO. *August 2019*
- Joint Statistical Meeting (JSM), Baltimore, MD. *August 2017*
- Joint Statistical Meeting (JSM), Seattle, WA. *August 2015*
- Applied Stochastic Models and Data Analysis (ASMDA). Piraeus, Greece. *July 2015*
- Stochastic Portfolio Theory and Related Topics, New York City, NY. *May 2015*

### *Poster*

- John W. Tukey's 100th birthday with a special conference, Princeton University. *September 2015*
- Rao Prize Conference, Department of Statistics, Pennsylvania State University. *May 2015*

### *Attendance*

- Shenandoah Undergraduate Mathematics and Statistics Conference, Harrisonburg, VA. *October 2018*
- The 50<sup>th</sup> Celebration Conference of the Statistics Department at Penn State University, State College, PA. *May 2018*
- National Conference of Teachers of Mathematics, Washington, D.C. *April 2018*
- The Mathematical Association of America, Newport, VA. *November 2017*
- Shenandoah Undergraduate Mathematics and Statistics Conference, Harrisonburg, VA. *October 2017*
- 11<sup>th</sup> World Congress of the Econometric Society, Montreal, Canada. *August 2015*
- United States Conference On Teaching Statistics (UCOTS), State College, PA. (Participation in the focus group session for Graduate Teaching Assistants in Statistics). *May 2015*
- Joint Statistical Meeting (JSM), Boston, MA. *August 2014*
- Nonparametric Statistics for Big Data, Madison, WI. *June 2014*

## Research Interests

- Functional Data Analysis, High Dimensional Data, Nonparametric Regression, Kernel Methods, Spline Smoothing, Functional Time Series, Nonlinear Functional Regression, Forecasting Models.

## Mentoring Research Experience

### *University of Lynchburg (Undergraduate Level)*

- Ian Campbell: "Analysis of 2016-17 MLS Season Data Using Poisson Regression with R."
- Elisabeth Yarmy: "Predicting Olympic Medal Counts Using Zero-Inflated Negative Binomial Regression."

### *Gabelli School of Business at Fordham University (Graduate Level)*

- Sumi Chahaduri: "Time Series Regression to Predict Unemployment Using Economic and Political Factors."

## Research Experience

### *Statistical Consulting*

Two semesters (9 months) as a required practice course at the Statistical Consulting Center at Pennsylvania State University. Work on different projects (with real datasets) from different areas.

- Entomology (ANOVA-R). *Spring 2013*
- Germanic and Slavic languages (Power Analysis- Minitab). *Spring 2013*
- Education (Hierarchical Linear Modeling-SPSS). *Spring 2013*
- Agriculture (Repeated Measure ANOVA- SAS). *Spring 2012*
- Communication Sciences and Disorders (Multidimensional scaling- SPSS). *Spring 2012*

### *Relevant Experience*

- Graduate research assistant in Computational Mechanics *August 2007- August 2009*
  - Department of Computational Engineering
  - Mississippi State University

### *Internships*

- AXA insurance (actuarial and financial section), Paris, France. *May 2004-September 2004*
  - Accounting-Control of Mathematical Provisions.

## Teaching Experience

### *University of Lynchburg (Department of Mathematics)*

- Assistant Professor (Graduate and Undergraduate -Level Courses) *Fall 2017 to present*
- STAT 333: Mathematical Statistics
  - MATH 311: Introduction to Probability Theory
  - STAT 302: Statistical Inference
  - STAT 300: Data Science & Applied Statistics
  - STAT 222: Concepts of Statistics

### *Fordham University (Gabelli School of Business)*

- Full Time Lecturer (Graduate- Level Courses) *Fall 2016 to Summer 2017*
- SDGB 7844: Statistics Methods & Computation
  - DGGB 7850: Forecasting Models
  - DGGB 6830: Statistics & Decisions (MBA)
  - DGGB 6820: Statistics (MBA)

### *Pennsylvania State University (Statistics Department)*

- Instructor (Undergraduate- Level Courses) *Summer 2012-Summer 2015*
- Stat 414: Introduction to Probability Theory (online course)
  - Stat 318: Elementary Probability

- Stat 200: Elementary Statistics
- Stat 100: Statistical Concepts and Reasoning

**Teaching Assistant** (Graduate and Undergraduate -Level Courses) *Fall 2010 to Summer 2016*

- Stat 500: Applied Statistics (Graduate)
- Stat 418: Introduction to Probability and Stochastic Processes
- Stat 414
- Stat 414 (Online course)
- Stat 318
- Stat 250: Introduction to Biostatistics
- Stat 240: Introduction to Biometry
- Stat 200

**Mississippi State University** (*Mathematics and Statistics Department*)

**Instructor**

*Fall 2009-Spring 2010*

MA 2113: Introduction to Statistics

***Les Cours Legendre (Private Tutoring Service)***

Private tutor in Mathematics and Statistics

*September 2004 - July 2007*

Conducted individualized and group tutoring sessions in mathematics and statistics for university and secondary school students at "Les Cours Legendre" (private tutoring service), Paris, France.

## Editorial Duties

- Referee/Reviewer: Econometrics and Statistics

## Professional Organizations Membership

- Isolated Statisticians (IsoStat)
- ASA: American Statistical Association
- Pi Mu Epsilon (PMU)

## Student's Awards and Accomplishments Under My Supervision

- **Ian Campbell:** Winner of the Undergraduate students poster for the 2018 Student Scholar Showcase. (University of Lynchburg). *April 2018*
- **Ian Campbell:** Received the 2017-2018 Director's Award for the best thesis by the Westover Honors Fellow. (University of Lynchburg). *May 2018*
- **Elisabeth Yarmy:** Pi Mu Epsilon (PMU) Undergraduate Student Travel Award to present a research work at the Mathematical Association of America (MAA) Conference, Denver, CO. *August 2018*

## Department and University wide Committees/Service

### *University of Lynchburg*

- Equity Advocate for the office of Equity and Inclusion *October 2018 to present*

### *Pennsylvania State University*

- Graduate student representative in the Committee of Climate and Diversity for the Eberly School of Science and for the Department of Statistics. *September 2014 - September 2015*

### *Mississippi State University*

- Vice president of the African Student Association (ASA). *September 2009 - July 2010*

## Computing Languages

- Excellent knowledge in R and Matlab.
- Experienced using SPSS, SAS and Minitab.

## Languages

- English (Fluent)
- French (Fluent)
- Arabic (Fluent)
- Italian (Conversational)