



Dr. Mario Giacomazzo

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Education

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| 2018 | Ph.D. in Statistics, Arizona State University, Tempe, AZ
<i>GPA: 4.00</i> |
| 2016 | M.Sc. in Statistics, Arizona State University, Tempe, AZ
<i>GPA: 4.00</i> |
| 2012 | B.A. in Secondary Math Education, Baldwin-Wallace
University, Berea, OH
<i>GPA: 3.89</i> |

Teaching Experience

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| 2018-Now | Teaching Assistant Professor, University of North Carolina.
<i>Data Science, Introductory Statistics, Discrete Math, Sports
Analytics, Spreadsheet Models, and Pedagogy</i> |
| 2012-2018 | Teaching Assistant, Arizona State University.
<i>Precalculus, Calculus I, Elements of Statistics, and Statistics
for the Biosciences</i> |
| 2011 | High School Math Teacher, Berea, OH.
<i>Algebra I, Algebra II, and Precalculus</i> |
| 2011 | Assessment and Learning in Knowledge Spaces (ALEKS)
Instructor, Baldwin-Wallace University |
| 2010-2011 | College Mathematics Tutor, Baldwin-Wallace University |

Work Experience

- 2013-2014 Data Analyst, Health Service Advisory Group, Phoenix, AZ.
- 2011 Transfer Student Coordinator, Baldwin-Wallace University
- 2008-2011 Admissions Staff Worker, Baldwin-Wallace University

Publications

- 2020 Giacomazzo, Kamarianakis. "Bayesian Estimation of Subset Threshold Autoregressions: Short-term Forecasting of Traffic Occupancy", *Journal of Applied Statistics*, 47:13-15

Undergraduate Research and Internships

- 2023-Now UNC Sports Analysis and Intelligence Laboratory
- 2022-2023 Research with Conor Kerr
Topic: Analytical Projects with UNC Basketball
- 2021-2022 C-START: Advised Course Development for Undergrads
Topic: Mathematics of Probability Games
- 2020-2021 Honors Thesis with Rui Li
Topic: Forecasting COVID-19 Case and Death Rates
- 2020 Internship with Shabhamvi Gupta
- 2020 Internship with Will Casmus
- 2019-2020 Honors Thesis with Ted Henson
Topic: Predicting Collegiate Success from High School Stats
- 2020 Independent Study with Hunter Finger
Topic: Investigating Bets in Professional Hockey
- 2019 Honors Project with Deepak Venkatasubramanian
- 2018 Honors Project with Yignan Wu
Topic: Investigating Patterns in UNC Salaries

Presentations

- 2019 *Bayesian Shrinkage Estimation of Smooth Transition Autoregressive Models*. Presented at UNC Research Week in Chapel Hill, North Carolina
- 2019 *Pursuing a Graduate Degree in Statistics*. Presented at Baldwin-Wallace University in Berea, Ohio
- 2018 *Bayesian Shrinkage Estimation of Smooth Transition Autoregressive Models*. Presented at the International Symposium on Forecasting in Boulder, Colorado
- 2017 *Bayesian Lasso Estimates for Smooth Transition Autoregressive Models: Application on Daily Maximum Stream Water Temperatures*. Presented at the Statistical Seminar Series at Arizona State University in Phoenix, Arizona
- 2015 *Forecast Combination Schemes for Predicting Maximum Water Temperature in Rivers*. Presented at the International Symposium on Forecasting in Riverside, California
- 2013 *What are the Characteristics of High and Low Performing Home Health Agencies in the United States?* Presented to the Analytics Team at Health Service Advisory Group in Phoenix, Arizona

Professional Memberships

American Statistical Association
International Journal of Forecasting
Institute of Mathematical Statistics

Technical Skills

Statistics: Linear Models, Multivariate Methods, Principal Component and Factor Analysis, Mixed Models, Clinical Trial Analysis, Categorical Data Analysis, Linear and Nonlinear Time Series Analysis, Biostatistics, Econometrics, Generalized Additive Models, Longitudinal Data, Forecasting Combination, Bayesian Shrinkage Estimation, Bayesian Model Selection, MCMC Programming, Simulation Studies and Experiments

Computing Platforms: Windows, Macintosh, UNIX

Statistical Programming Languages and Software: Extensive Experience with SAS and R, SPSS, STATA, MINITAB, JMP, Python, C++, JAGS, BUGS, STAN

Additional Software: Excel, Word, PowerPoint, Publisher, Photoshop, Illustrator, Indesign, MATLAB, Maple, Mathematica, Proficient Use with LATEX and Git

University Involvement

Professional Involvement

Advisor, Undergraduates in Statistics and Operations Research
Judge, Carolina Data Challenge Competition
Organizer, ASA DataFest
Consultant, ASA DataFest
Panelist, Industry Talk to Kappa Theta Pi
Panelist, CADS Industry Speaker
Member, Minor in Data Science Committee
Member, Career Fair Committee
Member, IDEAS in Action Course Review Committee
Member, Undergraduate Studies Committee
Member, Course Redesign Committee
Industry Liaison

Graduate Involvement

Public Relations, Graduate Statistics Club
Leader, Graduate Christian Fellowship

Undergraduate Involvement

Vice President, Baldwin-Wallace University Student Body
President, Commuter Activity Board
Treasurer, Distinguished Leaders Conference
Director, Pi Lambda Phi Recruitment
Student Senator, Representative for Commuter District
Chair, Student Senate Facilities Committee
Commuter Student Representative, Office of Commuter Services
Orientation Leader, Baldwin-Wallace University

Honors and Accolades

Honor Societies

2010 Dayton C. Miller, *Top 1% of Baldwin Wallace's Juniors and Seniors*
2010 Order of Omega, Greek Honorary for Leadership and Academics
2010 Gamma Sigma Alpha, Greek Honorary for Academic Achievement
2009 Kappa Mu Epsilon, Honorary for Achievement in Mathematics
2009 Kappa Delta Pi, Honorary for Achievement in Education

2009 Alpha Lambda Delta, Outstanding Freshman Honorary

Awards

2019 Excellence in Teaching Award

2012 Charles and Elsie Scholarship

2011 PRAXIS Mathematics Content Knowledge Distinction

2011 Alan Blumenthall Prize in Student Government

2011 J. E. Adams Scholarship in Mathematics

2010 Dr. E. S. Loomis Math Prize

2009 Robert Schlea Mathematics Scholarship

2007 Salutatorian, Heritage Christian School, Brooklyn, OH