William Cipolli

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Education

2012–2016   **Ph.D Statistics**, *University of South Carolina*, Columbia, SC.
- Dissertation Topic: Bayesian Nonparametric Approaches to Multiple Testing, Density Estimation and Supervised Learning
- Advisor: Dr. Timothy Hanson

2012–2014   **MS Statistics**, *University of South Carolina*, Columbia, SC.

2007–2011   **BA Mathematics**, *Quinnipiac University*, Hamden, CT.

2007–2011   **BS Computer Science**, *Quinnipiac University*, Hamden, CT.

Academic Positions

2012–2016   **Graduate Assistant**, *University of South Carolina*, Columbia, SC.
Courses Taught:
- Elementary Statistics with Lab
- Statistical Methods I

Online Curriculum Content Created:
- Elementary Statistics Lab Instructional Videos
- Elementary Statistics Pre-Lab Quizzes

Awards:
- Outstanding Graduate Assistant Award (2015)
- Citizenship Award (2015)
- Two Thumbs Up Award through Disability Services (2015)

2014   **Adjunct Professor**, *Florence Darlington Technical College*, Florence, SC.
Courses Taught:
- Probability and Statistics
- Microcomputer Applications

Online Curriculum Content Created:
- Introduction to Statistics

Courses Taught

2012–2015   **Elementary Statistics**, *University of South Carolina*.
An undergraduate introduction to the fundamentals of modern statistical methods, including descriptive statistics, probability, random sampling, simple linear regression, correlation, tests of hypotheses, and estimation accompanied by a lab section where assignments are completed in the StatCrunch application provided through Pearson My Lab & Mastering.
Lab Sections: Fall 2012(3), Spring 2013(3), Fall 2013, Spring 2014, Summer 2013, Fall 2014, Spring 2015, Fall 2015
Lecture Sections: Fall 2013, Spring 2014, Summer 2013, Fall 2014, Spring 2015, Fall 2015

2015   **Statistical Methods I**, *University of South Carolina*.
A mixed undergraduate and graduate introduction to and use of the statistical package R across applications of the principles of elementary probability including essential discrete and continuous probability distributions, sampling distributions, estimation, and hypothesis testing, inference for means, variances, proportions, one-way ANOVA, simple linear regression, and contingency tables.

2014 **Microcomputer Applications**, *Florence Darlington Technical College*.

An undergraduate course introducing microcomputer applications software, including word processing, data bases, spreadsheets, graphs, and their integration in Windows 7.

2014 **Probability and Statistics**, *Florence Darlington Technical College*.

An undergraduate introduction to and use of a Texas Instruments graphing calculator across applications of probability and statistics, including organization of data; sample space and probabilitiy concepts; random variables; counting problems; binomial and normal distributions; central limit theorem; confidence intervals; and test hypothesis for large and small samples; types I and II errors; linear regression and correlation.

Publications

W. Cipolli and T. Hanson, "Supervised learning for high dimensional data through smoothed Polya trees via Givens rotations." In Progress, 2015.

J. Fowler, W. Cipolli, and T. Hanson, "A comparison of three diagnostic tests for diagnosis of carpal tunnel syndrome using latent class analysis." Accepted at Journal of Bone & Joint Surgery, September 2015.

W. Cipolli, T. Hanson, and A. McLain, "Bayesian non-parametric multiple testing." In revision with Computational Statistics and Data Analysis, May 2015.

W. Cipolli and T. Hanson, "Computationally tractable approximate and smoothed Polya trees." In revision with Statistics and Computing, August 2015.

W. Cipolli, "Automated essay grading," Technical Report, University of South Carolina, May 2014.

X. Liu, W. Cipolli, N. Jamil, T. Sanders, J. Zhao, A. Brylev, J. Wang, and J. Tabat, "Mathematical and computational analysis of cancer cell lineage models," Technical Report, University of South Carolina, May 2013.

Invited Presentations

06/22/2015 **Bayesian Nonparametrics 2015**, North Carolina State University, Raleigh, SC.
- Awarded a travel award funded by federal grants

06/09/2015 **Southern Regional Council on Statistics Summer Research Conference 2015**, Carolina Beach, NC.
- Awarded a Boyd Harshbarger Travel Award
- Honorable mention in poster competition.

03/06/2015 **ASA Palmetto Symposium**, University of South Carolina, Columbia, SC.

Professional Consulting

03/16/2014 **Judging Appropriateness of SUP Using Patient Demographic Data**, *Pharmacology Department*, University of South Carolina, Columbia, SC.

02/17/2014 **Veteran Affairs Resource Utilization by Patients with HFpEF**, *Pharmacology Department*, University of South Carolina, Columbia, SC.

02/05/2014 **Attitude towards Homelessness Questionnaire**, *Psychology Department*, University of South Carolina, Columbia, SC.