

CURRICULUM VITAE  
**Rebecca Carter Steorts**

Department of Statistics  
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### **Education**

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Ph.D. in Statistics, April 2012 (expected), University of Florida. Advisor: Malay Ghosh.  
M.S. in Mathematical Sciences, May 2007, Clemson University.  
B.S. in Mathematics, May 2005, Davidson College.

### **Research Interests**

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Small area estimation, survey methodology, Bayesian methodology, decision theory.

### **Publications and Manuscripts**

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Datta, G., Ghosh, M., **Steorts, R.**, and Maples, J. (2011). Bayesian benchmarking with applications to small area estimation, *TEST*, **20**(3), 574-588.  
Ghosh, M. and **Steorts, R.** (2011). Two-stage Bayesian benchmarking as applied to small area estimation, Submitted.  
**Steorts, R.** and Ghosh, M. (2012). On estimation of mean squared errors of benchmarked empirical Bayes estimators, Submitted.

### **Teaching Experience**

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#### **Instructor**

Introduction to Bayesian Statistics (Honors), STA 4930, University of Florida, Spring 2011.

- Proposed/developed entire course for UF Innovation through Institutional Integration Program.

Elementary Statistical Inference, MTHSC 203, Clemson University, Fall 2006–Spring 2007.

#### **Teaching Assistant**

Introduction to Statistics II, STA 3024, University of Florida, Spring 2008.

Elementary Statistical Inference, MTHSC 203, Clemson University, Spring 2006.

Precalculus and Introductory Differential Calculus, MTHSC 104, Clemson University, Fall 2005.

## Research and Professional Experience

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### Internships

Cotton Quality Research Station, United States Department of Agriculture, May 2006–April 2007.

Supervisors: Devron Thibodeaux and James Rodgers.

- Analyzed cotton data using statistical techniques such as MLR and PLS.

Life Sciences Division, CEM Corporation, Summer 2003.

Supervisor: Michael Collins.

- Tested microwave synthesis systems to optimize chemistries.
- Worked in a group that tested and implemented a microwave peptide synthesizer.

### Research Assistantships

Statistics Department, University of Florida, August 2011–Present.

Advisor: Malay Ghosh.

Mathematics Department, Davidson College, Summer 2005.

Supervisor: Timothy Chartier.

- Designed and implemented code in Java, C++, and MATLAB to aid in algebraic multigrid research.

Chemistry Department, Davidson College, Summer 2004.

Supervisor: Merlyn Schuh.

- Investigated kinetics, structure, and specific interactions of ternary inclusion complexes of  $\alpha$ -cyclodextrin with bromonaphthalene derivatives using spectroscopy.

### Presentations

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*Bayes and Empirical Bayes Benchmarking for Small Area Estimation.* United States Census Bureau, Survey and Research Methodology Division, Washington, D.C., December 2011.

*Two-Stage Benchmarking with Applications to Small Area Estimation.* Joint Statistical Meetings, Miami Beach, Florida, August 2011.

*Fundamentals and Applications of Bayesian Analysis.* Short Course [12 hour course], joint with Malay Ghosh, Novartis Oncology Global Development, Florham Park, New Jersey, May 2011.

*Bayesian Benchmarking with Applications to Small Area Estimation.* Joint Statistical Meetings, Vancouver, Canada, August 2010.

*Bayesian Benchmarking as Applied to Small Area Estimation.* Graduate Student Seminar, Department of Statistics, University of Florida, Gainesville, Florida, March 2010.

*An Introduction to JAGS.* Graduate Student Seminar, Department of Statistics, University of Florida, Gainesville, Florida, October 2009.

## Honors and Awards

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ASA Survey Research Methods, Government Statistics, and Social Statistics Travel Award for the Joint Statistical Meetings, San Diego, California, August 2012.

ISBA Young Traveler Support Award, Kyoto, Japan, June, 2012.

United States Census Bureau Dissertation Fellowship Program, August 2010–Present.

UF Innovation through Institutional Integration (I-Cubed) Program (funded by the NSF) Teaching Award for development of new course to department curriculum, Spring 2011.

University of Florida Graduate Alumni Fellowship, University of Florida, August 2007–2010.

ASA Survey Research Methods Section (SRMS) Travel Award for the Joint Statistical Meetings, Vancouver, Canada, August 2010.

Division of Sponsored Research Matching Travel Award for the Joint Statistical Meetings, Vancouver, Canada, August 2010.

Mathematical Sciences Graduate Student Teaching Award, Clemson University, May 2007.

MCM (Mathematical Contest in Modeling) Meritorious Award for paper: *DualQueue: Model for Optimal Quantity of Tollbooths*, May 2005.

## Service to Profession

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Refereeing for the Journal of the American Statistical Association (JASA), Spring 2012.

Organized Topic-Contributed Session for Joint Statistical Meetings, San Diego, August 2012.

Chair of weekly Graduate Student Seminars, University of Florida, Fall 2009–Spring 2010.

Vice President of SIAM Student Chapter, Clemson University, Fall 2006–Spring 2007.

President and Vice President of Bernard Society of Mathematics, Davidson College, Fall 2003–Spring 2005.

## Professional Memberships

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American Statistical Association (ASA)

Institute of Mathematical Statistics (IMS)

International Society for Bayesian Analysis (ISBA)

## Computer Skills

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R, SAS, WinBUGS, JAGS, MATLAB, Minitab, C/C++, Java, L<sup>A</sup>T<sub>E</sub>X.

## References

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