

Gregory Vaughan

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EDUCATION

University of Connecticut

Ph.D. in Statistics
Thesis Title: Stagewise Generalized Estimating Equations
Advisors: Dr. Kun Chen & Dr. Jun Yan

(Expected) August 2017
Storrs, CT

Trinity College

B.S. in Mathematics / B.S. in Computer Science
Member of Pi Mu Epsilon Honor Society
Honor's Thesis Title: Bayesian Analysis
Thesis Advisor: Dr. Paula Russo

June 2012
Hartford, CT

TEACHING POSITIONS

Instructor

Department of Statistics, University of Connecticut

June 2013 – Present
Storrs, CT

- Courses

- ★ Introduction to Mathematical Statistics I
- ★ Introduction to Mathematical Statistics II
- ★ Independent Study – Generalized Linear Models
- ★ Statistical Methods (Calculus Level I)
- ★ Introduction to Statistics I

Fall 2013–2016

Spring 2014–2016

Spring 2016

Summer 2015

Summer 2013–2014

- Supervise teaching assistants

Teaching Assistant

Department of Statistics, University of Connecticut

September 2012 – June 2013
Storrs, CT

- Courses:

- ★ Introduction to Statistics I

Fall 2012, Spring 2013

- Led weekly discussion sessions to reinforce material covered in the lectures

RESEARCH POSITIONS

Graduate/Research Assistant

Center for Public Health and Health Policy

September 2013 - May 2015
Farmington, CT

- Developed a statistical alarm system for monitoring influenza using Google Flu Trends
- Examined marginal beta regression and its applications to public health studies
- Provided statistical analysis on systemic and individual determinants of maternal morbidity

HONORS & AWARDS

University of Connecticut

Departmental Service Award

Annual award recognizing outstanding service to the Department of Statistics

2016

Doctoral Student Travel Award

Financial award to fund presentation at a conference

2016

Pre-Doctoral Dissertation Fellowship

Departmental fellowship for dissertation research

2016

Departmental Teaching Award

Annual award recognizing outstanding teaching in the Department of Statistics

2015

Trinity College

Presidential Fellow

Elected by faculty to represent the Mathematics department

2012

Robert C. Stewart Prize

Awarded by Trinity Department of Mathematics

2012

RESEARCH INTERESTS

Statistical Learning, Longitudinal Data Analysis, Statistical Computing, Biostatistics, and Public Health Applications.

PUBLICATIONS

Vaughan, G., Aseltine, R., Chiou, S., and Yan, J. (2016+): An alarm system for flu outbreaks using Google Flu Trend data. In J. Lin, B. Wang, X. Hu, K. Chen, and R. Liu (eds.) *Statistical Applications From Clinical Trials and Personalized Medicine to Finance and Business Analytics*, Springer. Forthcoming.

Vaughan, G., Aseltine, R. H, Chen, K., and Yan, J. (2016): Stagewise generalized estimating equations with grouped variables. *Biometrics*, Invited revision.

Vaughan, G., Aseltine, R. H, Chen, K., and Yan, J.: Interaction model selection using stagewise generalized estimating equations. In progress.

Flanagan S., **Vaughan G.**, DuPont W., Sterczala A., Comstock B., Looney D., Dunn-Lewis C., Kraemer W.: Effects of cardiovascular fitness and training preferences on heart rate variability before, during, and after a progressive maximal intensity cycling test. In progress.

SOFTWARE

Vaughan, G., Chen, K., and Yan, J.: R package `sgee` on CRAN, stagewise generalized estimating equations.

TALKS

Stagewise generalized estimating equations with grouped covariates. Women In Mathematics In New England, Northampton, MA. September 2016.

Stagewise generalized estimating equations with grouped covariates. Joint Statistical Meetings, Chicago, IL. August 2016.

POSTERS

Surveillance of flu epidemic in Connecticut with Google Flu Trend data. 11th International Conference on Health Policy Statistics, Providence, RI. October 2015.

Surveillance of flu epidemic in Connecticut with Google Flu Trend data. 29th New England Statistics Symposium, University of Connecticut, Storrs, CT. April 2015.

PROFESSIONAL ASSOCIATIONS

American Statistical Association, International Chinese Statistical Association, International Biometric Society

SERVICE

Departmental Service

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|---|-----------------------|
| President , Graduate Student Committee | <i>2016 - Present</i> |
| • Leader and primary contact for the Graduate Student Committee | Storrs, CT |
| • Organize academic and social events for the department | |
| Graduate Union Steward/Representative , UConn Graduate Employee Union | <i>2014 - Present</i> |
| • Serve as liaison between Graduate Students and the Graduate Union Leadership | Storrs, CT |
| Registration Committee Head , 29th New England Statistics Symposium | <i>April 2015</i> |
| • Coordinated registration logistics of competition between teams from five schools | Storrs, CT |
| • Consulted with teams over the three day event | |

External Service

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| Class Agent , The Exeter Fund | <i>2013 - Present</i> |
| • Assist in fund raising initiatives, | Exeter, NH |
| • Maintain correspondence between '08 alumni and the Academy | |
| Assistant Coach , UConn Club Wrestling Team | <i>2013 - Present</i> |
| • Provide training guidance for members of the team | Storrs, CT |
| • Conduct and participate in weekly practices | |
| Co-Chair and Organizer , Connecticut Data Fest | <i>April 2016</i> |
| • Coordinated logistics for event | Middletown, CT |
| • Provided statistical consulting for participating teams | |