

RESEARCH SUMMARY

My Master's project was in the area of estimating low-probability failure events for critical energy infrastructure following seismic activity. My current research focuses on computer model emulation and calibration generally, and specifically on the use of Gaussian process models for wind turbine blade design.

EDUCATION

- Ph.D. in Mathematical Sciences (anticipated 2019)* 2015 - present
Clemson University, Clemson, SC
- Specializing in statistics, computational mathematics and data analytics
 - Awarded Graduate Alumni Fellowship, Fall 2015
 - Awarded GAANN research assistantship, Spring 2016 - present
- M.S. in Mathematical Sciences* 2015 - 2017
Clemson University, Clemson, SC
- Master's project: researching, developing and coding methods for estimation of low-probability failure events
- Ph.D. in Philosophy* 2007 - 2011
Northwestern University, Chicago IL
- Specialized in language and logic
 - Wrote dissertation on semantic models of vagueness in natural language
- M.A. in Philosophy* 2003 - 2006
University of Kentucky, Lexington KY
- Awarded Graduate Certificate in cognitive sciences
 - Specialized in language, logic, and cognitive sciences
- B.A. in Philosophy* 1999 - 2003
Furman University, Greenville, SC

EXPERIENCE

- GAANN Research Fellow* January 2016 - Present
Clemson University, Clemson, SC
- Implementing techniques for statistical modeling of low-probability failure events
 - Writing code (primarily in MATLAB and R) to create statistical models
 - Studying Bayesian statistics, uncertainty quantification, model validation
 - Engaged in collaborative research and publication of results
- Teaching Assistant in Mathematics* Fall 2015
Clemson University, Clemson, SC
- Guided students in one-on-one interactions to learn course material
- Adjunct Professor of Philosophy* Fall 2014
Furman University, Greenville, SC
- Taught course in introductory philosophy (designed and implemented syllabus, class lectures, and assessments, and lead class meetings)
 - Guided students through one-on-one interactions in office hours
 - Engaged in self-directed research and publication of results
- Adjunct Professor of Philosophy* Fall 2013 - Spring 2014
University of South Carolina Upstate, Spartanburg, SC
- Taught courses in ethics and introductory philosophy
 - Guided students through one-on-one interactions in office hours
- Visiting Assistant Professor of Philosophy* Fall 2010 - Spring 2013
Furman University, Greenville, SC
- Taught courses in language, logic and introductory philosophy
 - Designed, successfully proposed, and taught a new freshman writing seminar
 - Guided students through one-on-one interactions in office hours
 - Evaluated departmental practices and results against SACS standards, producing a report for submission to SACS

- Engaged in collaborative writing with colleagues, leading to publication

SKILLS

Programming: MATLAB, R, Python, Bash, L^AT_EX.

Software: Microsoft Office suite, LibreOffice open source suite, Adobe Creative Suite.

Operating systems: Windows, iOS, Android, Chrome OS, Linux, Ubuntu.

Human Languages: English (fluent), French (read and write), Spanish (read).

PUBLICATIONS

Statistics

- Prabhu, S., Carl Ehrett, Andrew Brown, Mohammad Javanbarg, Sez Atamturktur, and Marc Lehmann. Uncertainty Quantification in Fault Tree Analysis: Estimating Business Interruption due to Seismic Hazard. Under review.

Philosophy

- Ehrett, C. Semantics of Fiction: Naming and Metonymy. *Fiction and Art: Explorations in Contemporary Theory*. Ed. Ananta Sukla. Bloomsbury: London, 2015.
- Ehrett, C. Vagueness. In *Oxford Bibliographies Online: Philosophy*. Ed. Duncan Pritchard. New York: Oxford University Press, June 2011.
<http://tinyurl.com/oxbib-vagueness>
- Ehrett, C. and Sarah Worth. What It Is and Why We Do It. *Dungeons and Dragons and Philosophy*. Ed. J. Cogburn and M. Silcox. Chicago: Open Court, 2012.

REFERENCES

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|---|------------------------|
| <i>Andrew Brown</i> | ab7@clemson.edu |
| Dept. of Mathematical Sciences, Clemson University | |
| <i>Sez Atamturktur</i> | sez@clemson.edu |
| Dept. of Environmental Engineering and Earth Sciences, Clemson University | |
| Co-advisor | |
| <i>Sarah Worth</i> | sarah.worth@furman.edu |
| Dept. of Philosophy, Furman University | |
| Department Chair when I taught at Furman | |
| <i>Christopher McMahan</i> | mcmaha2@clemson.edu |
| Dept. of Mathematical Sciences, Clemson University | |
| Committee Member | |