

Miguel Antonio Fudolig

Curriculum Vitae

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Education

- 2009 — 2015 **Ph.D.**, *Statistics*, Iowa State University
- 2009 — 2011 **MS**, *Statistics*, Iowa State University
- 2005 — 2009 **BS**, *Psychology & Applied Mathematical Sciences*, Texas A&M University

Professional Experience

- 2013 — 2015 **Statistical Consultant**, Designed Shiny applications for agricultural data for the Iowa Soybean Association and other groups.
- 2013 — 2014 **Statistical Programmer**, *Statistics*, Iowa State University, Created and redesigned web-based applets to teach statistical techniques interactively.
- 2012 — 2014 **Research Assistant**, *Statistics*, Iowa State University, Designed and analyzed experiments to understand human perception of statistical graphics. Optimized graphics to clearly communicate statistical results and counteract perceptual biases identified during experiments.
- 2012 **Research Assistant**, *Iowa Department of Transportation*, Iowa State University, Developed a hierarchical bayesian model to determine the effectiveness of road interventions on traffic accidents and fatalities.
- 2009 — 2009 **Research Experience for Undergraduates**, *Bioinformatics & Computational Biology*, Iowa State University, Worked with biologists and bioinformaticians to compare homologous gene expression in humans, pigs, and mice.
- 2008 — 2008 **Research Experience for Undergraduates**, *Mathematics*, University of Nebraska, Created a mathematical model describing electrical impulse transmission and decay along neurons with varying states of myelination.

Publications

Software

Dates show initial involvement; only packages which are no longer maintained have end dates.

- 2013 — 2017 **animint**, *Interactive animations*, <https://github.com/tdhock/animint>

Grants

Funded

- 2014 **Google: Google Summer of Code**, *animint: d3 graphics with ggplot2*, co-PI, Total: \$6,000
- 2013 **Google: Google Summer of Code**, *animint: d3 graphics with ggplot2*, student, Total: \$6,000

Awards

2012	Student Paper Award , <i>Graphics Section, American Statistical Association</i>
2009	IGERT Fellowship , <i>National Science Foundation</i>
2009	Graduated with Foundation, University, Liberal Arts, Psychology, and Math Honors , <i>Texas A&M University</i>
2009	Astronaut Scholar , <i>Astronaut Scholarship Foundation</i>
2008	Research Fellow , <i>Texas A&M University</i>
2006	University Scholar , <i>Texas A&M University</i>
2005	Director's Excellence Award , <i>Texas A&M University</i>
2005	National Merit Award , <i>Texas A&M University</i>
2005	National Merit Scholar

Talks

Invited

2015	Animint: Interactive Web-Based Animations using Ggplot2's Grammar of Graphics , <i>JSM</i> , Section on Statistical Graphics, Seattle, WA Link
2014	The curse of three dimensions: Why your brain is lying to you , <i>JSM</i> , Section on Statistical Graphics, Boston, MA Link

Contributed

2015	Visual Aptitude and Statistical Graphics , <i>InfoVis</i> , IEEE, Chicago, IL
2014	Do You See What I See? Using Shiny for User Testing , <i>JSM</i> , Section on Statistical Graphics, Boston, MA Link
2014	Animint: Interactive, Web-Ready Graphics with R , <i>Great Plains R User Group</i> , Sioux Center, IA Link
2013	Signs of the Sine Illusion – why we need to care , <i>JSM</i> , Section on Statistical Graphics, Montreal, ON, CA

Teaching

2013	Stat 336 , <i>Introduction to Business Statistics II</i> , Iowa State University
2012	Stat 430 , <i>Probability and Statistics for Computer Science</i> , Iowa State University
2011	Stat 226 , <i>Introduction to Business Statistics I</i> , Iowa State University

Professional Practice

Workshop

2014	R Workshop series , <i>Iowa State University</i> , Ames, IA, evening classes
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2014

R Workshop series, Iowa State University, Ames, IA, 4 day

2013

R Workshop series, Iowa State University, Ames, IA, 4 day

2013

R Workshop series, Iowa State University, Ames, IA, 5 day

Service

Discipline

2017

2019

Council of Sections Representative, Graphics Section, ASA