Department of Statistics & Statistical Laboratory Office: 515.294.8679 Iowa State University Fax: 515.294.4040

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### Education

Ph.D. Statistical Science, Duke University, 2009

Thesis: Bayesian Analysis and Computational Methods for Dynamic Modeling

Advisor: Mike West

M.S. Biostatistics, University of Minnesota, 2005

Thesis: Identifying and evaluating contrarian strategies for NCAA tournament pools

Advisor: Brad Carlin

B.ChE. Chemical Engineering, University of Minnesota, 1999

### **Academic Positions**

Assistant Professor Iowa State University Statistics & Statistical Laboratory 2011-present

Assistant Professor University of California, Santa Barbara Statistics & Applied Probability 2009–2011

# **Employment**

| Consultant         | Boehringer Ingelheim Vetmedica, Inc.  | 2012 – 2013 |
|--------------------|---------------------------------------|-------------|
|                    | Natural Resources Research Institute  | 2009 – 2010 |
|                    | Denver Health                         | 2008        |
|                    | Purdue Pharma LP                      | 2007 - 2008 |
| Research Assistant | Duke University (Mike West)           | 2006 - 2009 |
|                    | University of Minnesota (Brad Carlin) | 2004 - 2005 |
|                    | University of Minnesota (Grace Peng)  | 2003 - 2004 |
| Junior Scientist   | University of Minnesota               | 2001 - 2004 |
|                    | Natural Resources Research Institute  | 2003        |
| Research Engineer  | Procter & Gamble                      | 1999-2001   |

### **Publications**

# **Submitted Articles**

David M. Brenner, Jack Dekker, **Jarad Niemi**, and Lisa Pfiffner. "Medical Oxygen Concentrators for Releasing Seed Dormancy." *submitted to Crop Science* 

Matthew Simpson\*, **Jarad Niemi**, Vivekananda Roy. "Interweaving Markov Chain Monte Carlo Strategies for Efficient Estimation of Dynamic Linear Models." *submitted to the Journal of Computational and Graphical Statistics* 

Ignacio Alvarez\*, Jarad Niemi, and Matt Simpson\*. "Bayesian inference for a covariance matrix." submitted to the Proceedings for the Conference on Applied Statistics in Agriculture

<sup>\*</sup> Indicates a student who I am advising or co-advising.

# Refereed Journal Articles

Robert B. Gramacy, **Jarad Niemi**, Robin Weiss. (2014) "Massively parallel approximate Gaussian process regression." *SIAM/ASA Journal on Uncertainty Quantification* http://arxiv.org/abs/1310.5182

Daniel Sheinson\*, **Jarad Niemi**, and Wendy Meiring. (2014) "Estimation of a disease epidemic using particle filtering." *Journal of Mathematical Biosciences* 

Jonathan Dess, Jennifer L. Momsen, **Jarad Niemi**, Lisa Montplaisir. (2014) "Student interpretations of phylogenetic trees in an introductory biology course." *CBE - Life Sciences Education* 

Jo Eidsvik, Benjamin A. Shaby, Brian J. Reich, Matthew Wheeler, and **Jarad Niemi**. (2013) "Estimation and prediction in spatial models with block composite likelihoods." *Journal of Computational and Graphical Statistics* 

Bernie J Daigle Jr, Min K Roh, Linda R Petzold and **Jarad Niemi**. (2012) "Accelerated maximum likelihood parameter estimation for stochastic biochemical systems." *BMC Bioinformatics* 13:68.

David Banks, Gauri Datta, Alan Karr, James Lynch, **Jarad Niemi**, and Francisco Vera. (2012) "Bayesian CAR models for syndromic surveillance on multiple data streams: theory and practice." *Information Fusion*: 13(2): 105–116.

Mike Ludkovski and **Jarad B. Niemi**. (2010) "Optimal dynamic policies for influenza management." Statistical Communications in Infectious Diseases: 2(1): 5.

**Jarad B. Niemi** and Mike West. (2010), "Adaptive mixture modelling Metropolis methods for Bayesian analysis of non-linear state-space models." *Journal of Computational and Graphical Statistics*. 19(2): 260–280.

Quanli Wang, **Jarad Niemi**, Cheemeng Tan, Lingchong You, and Mike West. (2010), "Image segmentation and dynamic lineage analysis in single-cell fluorescent microscopy." Cytometry: Part A 77A(1): 101–110

**Jarad Niemi**, Brad Carlin, and Jon Alexander. (2008), "Contrarian strategies for NCAA tournament pools: a cure for March madness?" *Chance* **21**(1): 39–46

Michael J. Simmons, **Jarad B. Niemi**, Don-Felix Ryzek, Cecile Lamour, Joseph W. Goodman, Wojtek Kraszkiewicz, and Ryan Wolff. (2007), "Cytotype regulation by telomeric P elements in  $Drosophila\ melanogaster$ : Interactions with P elements from M' strains."  $Genetics\ 176(4)$ : 1957–1966

Cheemeng Tan, Hao Song, **Jarad Niemi**, and Lingchong You. (2007), "A synthetic biology challenge: making cells compute." *Molecular BioSystems* **3**: 343–353

Kevin J. Haley, Jeremy R. Stuart, John D. Raymond, **Jarad B. Niemi**, and Michael J. Simmons. (2005), "Mutations in the Su(var)2-5 gene impair cytotype-mediated regulation of *P* element activity in *Drosophila melanogaster* through a Maternal Effect." *Genetics* **171**: 583–595.

**Jarad B. Niemi**, John D. Raymond, Ryan Patrek, and Michael J. Simmons. (2004), "Establishment and maintenance of the *P* cytotype associated with telomeric *P* elements in *Drosophila melanogaster*." *Genetics* **166**: 255–264.

Michael J. Simmons, John D. Raymond, **Jarad B. Niemi**, Jeremy R. Stuart, and Peter J. Merriman. (2004), "The P cytotype in  $Drosophila\ melanogaster$ : A maternally transmitted regulatory state of the germ line associated with telomeric P elements."  $Genetics\ 166$ : 243–254.

Michael J. Simmons, Kevin J. Haley, Craig D. Grimes, John D. Raymond, and **Jarad B. Niemi**. (2002), "A hobo transgene that encodes the *P* element transposase in *Drosophila melanogaster*: Autoregulation and cytotype control of transposase activity." *Genetics* **161**: 195–204.

# **Book Chapters**

**Jarad B. Niemi** and Gerald J. Niemi. "Linear regression, model averaging, and Bayesian techniques for predicting chemical activities from structure." Ebook chapter on Advances in Mathematical Chemistry, Editors: Subhash C. Basak, Guillermo Restrepo and Jose Luis Villaveces, Bentham Publishers (*accepted*)

# Refereed Conference Proceeding

Michael Ludkovski and **Jarad Niemi** (2011) "Optimal disease outbreak decisions using stochastic simulation." *Proceedings of the 2011 Winter Simulation Conference*, eds. S. Jain, R. R. Creasey, J. Himmelspack, K. P. White, and M. Fu.

Jarad Niemi, Meredith Smith, and David Banks. (2008), "Test power for drug abuse surveillance." in *Biosurveillance and Biosecurity, Proceedings of BioSecure 2008, Lecture Notes in Computer Science*, eds. Daniel Zeng, Hsinchun Chen, Henry Rolka, and William B. Lober. pp. 131–142

## Refereed Abstracts

**Jarad Niemi**. (2013) "A Tool for Interactive Disease Outbreak Visualization, Detection, and Forecasting" *Online Journal of Public Health Informatics* 

Jarad Niemi and Michael Ludkovski. (2013) "Tau-leaped particle learning." Online Journal of Public Health Informatics 5:1 http://dx.doi.org/10.5210%2Fojphi.v5i1.4575

Jarad Niemi and Michael Ludkovski. (2011) "Optimal sequential management decisions for measles outbreaks." *Emerging Health Threats Journal* 4 http://dx.doi.org/10.3402/ehtj.v4i0.11907.

**Jarad Niemi**. (2011) "An exploratory analysis of the 2010 measles outbreak in Zimbabwe." *Emerging Health Threats Journal* 4 http://dx.doi.org/10.3402/ehtj.v4i0.11907.

**Jarad B. Niemi**, Michael D. Porter, and Brian J. Reich. (2008), "Mixture likelihood ratio scan statistic for disease outbreak detection." *Advances in Disease Surveillance* 5:49

# Book reviews

Jarad B. Niemi. (2010) Dynamic Linear Models with R. The American Statistician 64:3, pg 268 http://pubs.amstat.org/doi/abs/10.1198/tast.2010.br643

# Other publications

**Jarad Niemi** and Andrew Gelman. (2011) "Statistical graphics: making information clear – and beautiful. Significance 8, 135–137

**Jarad B. Niemi**. (2010) "Evaluating individual player contributions to team offense and defense: a model based approach." *JSM Proceedings, Section on Statistics in Sports*. Vancouver, BC, Canada: American Statistical Association. 4914–4923.

Jarad B. Niemi and Matthew Wheeler. "Efficient Bayesian inference in stochastic chemical kinetic models using graphical processing units." http://arxiv.org/abs/1101.4242

Tim W. Dake, **Jarad B. Niemi**, Don L. Hughes, Jeff J. Kester, Don B. Compton, Jon J. Calderas, Rich G. Schafermeyer, Kevin P. Christmas. "Compositions having enhanced aqueous solubility and methods of their preparation." PCT/US2002/014505 filed

## Presentations

"Massively Parallel Approximate Gaussian Process Regression," Joint Statistical Meetings, 7 Aug 2014 (invited)

"Particle learning for low counts in disease outbreaks," Department of Statistics, Iowa State University, 16 September 2013

"Particle learning for sequential estimation and prediction of disease outbreaks" 2013 ICSA-ISBS Joint Statistical Conference, 10 June 2013

"Statistical Methods for Identifying Gene Expression Heterosis" Conference on Applied Statistics in Agriculture, 30 April 2013 (joint with Dan Nettleton)

"Particle learning for low counts in disease outbreaks" Midwest Statistics Research Colloquium, 15 Mar 2013 (invited)

"A computational approach to the sequential control problem" Duke Department of Statistical Science  $25^{th}$  Anniversary Celebration, 20 Oct 2012 (invited)

"Rejection sampling on a graphical processing unit" 11th World Meeting of the International Society for Bayesian Analysis, 28 June 2012 (invited)

"Determining optimal sequential disease outbreak interventions" University of Iowa, Computational Epidemiology Seminar, 20 Jan 2012 (invited)

"Optimal sequential management decisions for measles outbreaks" International Society for Disease Surveillance  $10^{\rm th}$  Annual Conference, 7 Dec 2011 (contributed)

"A sequential Monte Carlo primer" Iowa State University, Department of Statistics, Computational Statistics working group, 12 Oct 2011 (invited)

"Statistical computing on graphical processing units" Iowa State University, Department of Statistics, Computational Statistics working group, 28 Sep 2011 (invited)

"Time management." UCSB IGERT Career Development Seminar Series, 12 April 2011 (invited)

"Optimal dynamic policies for influenza management." Iowa State University departmental seminar, 24 February 2011 (invited)

"Optimal sequential management decisions for influenza outbreaks." University of California, Santa Barbara Statistics and Applied Probability departmental seminar, 12 January 2011 (invited, joint with Mike Ludkovski)

"Optimal sequential management decisions for influenza outbreaks." International Society for Disease Surveillance  $9^{th}$  Annual Conference, 2 Dec 2010 (contributed)

"Evaluating individual player contributions in basketball." Joint Statistical Meetings, 4 Aug 2010 (contributed)

"A brief introduction to R." University of California, Santa Barbara Quantitative Methods in Social Sciences seminar, 8 April 2010 (invited)

"Early outbreak detection using syndromic surveillance networks." University of California, Los Angeles Biostatistics departmental seminar, 19 November 2009 (invited)

"A sequential Monte Carlo primer." University of California, Santa Barbara Statistics and Applied Probability departmental seminar, 21 October 2009 (invited)

"Adaptive mixture modeling Metropolis methods for state inference in nonlinear time series." Joint Statistical Meetings, 3 August 2009 (invited)

"Computational methods for general state-space models." University of New Mexico Mathematics and Statistics departmental seminar, 19 February 2009 (invited)

"Computational methods for general state-space models." University of Michigan Statistics departmental seminar, 17 February 2009 (invited)

"Computational methods for general state-space models." University of Texas, Austin Information, Risk, and Operations Management departmental seminar, 17 February 2009 (invited)

"Computational methods for general state-space models." Johns Hopkins Biostatistics departmental seminar, 6 February 2009 (invited)

"Computational methods for general state-space models." University of California, Los Angeles Biostatistics departmental seminar, 28 January 2009 (invited)

"Computational methods for general state-space models." Iowa State Statistics departmental seminar, 26 January 2009 (invited)

"Computational approaches for general state-space models." University of California, Santa Barbara Statistics and Applied Probability departmental seminar, 12 January 2009 (invited)

"Mixture likelihood ratio scan statistic for disease outbreak detection." 7<sup>th</sup> Annual Meeting of the International Society for Disease Surveillance, 3 December 2008 (contributed)

"Test power for drug abuse surveillance." BioSecure, 2 December 2008 (contributed)

"Assessing the effectiveness of a national drug intervention policy." Graduate Student Seminar Series, 17 November 2008 (contributed)

"Discrete-time models for intracellular processes in systems biology." Graduate Student Research Day, Duke University, 02 April 2008 (contributed)

"Bayesian analysis in systems biology: Advances and impact in single-cell dynamical networks." Graduate Student Seminar Series, 25 February 2008 (contributed)

"Stochastic modelling and estimation in dynamic cellular networks." 39<sup>th</sup> Symposium on the Interface: Computing Science and Statistics, 24 May 2007 (invited, given on behalf of Mike West)

"Bayesian modeling and inference in single cell dynamic networks." 39<sup>th</sup> Symposium on the Interface: Computing Science and Statistics, 26 May 2007 (contributed)

"Identifying and evaluating contrarian strategies for NCAA tournament pools." 2006 Joint Statistical Meetings, 8 August (contributed)

#### Posters

**Jarad Niemi** and Michael Ludkovski. Poisson-binomial state-space model for disease outbreaks with low counts. International Society for Bayesian Analysis World Meeting. 16 July 2014

Ignacio Alvarez\* and **Jarad Niemi**. Bayesian Inference for covariance matrix. Conference on Applied Statistics in Agriculture, Kansas State University. 29 Apr 2014

MacDonald, A.L., L.A. Schulte Moore, M.J. Helmers, and **J.B. Niemi**. Bird response to native habitat strips integrated into agricultural fields. International Conference on Agricultural Biodiversity and Sustainability, Hokkaido University, Japan. 29 Aug 2012

A.L. MacDonald, L.A. Schulte, M.J. Helmers, and **J.B. Niemi**. 2012. Testing a new conservation practice for agricultural landscapes: Bird response to prairie strips in row-cropped landscapes. 97th Annual Meeting of the Ecological Society of America, Portland, Oregon. 7 Aug 2012

**Jarad Niemi**. "A Tool for Interactive Disease Outbreak Visualization, Detection, and Forecasting" International Society for Disease Surveillance 12<sup>th</sup> Annual Conference, 7 Dec 2013

**Jarad Niemi**. "An exploratory analysis of the 2010 measles outbreak in Zimbabwe" International Society for Disease Surveillance 10<sup>th</sup> Annual Conference, 7 Dec 2011

**Jarad Niemi** and Matthew Wheeler. "Parameter inference in stochastic chemical kinetic models on GPUs." MCMSki3: 4<sup>th</sup> International IMS/ISBA Joint Meeting, 6 Jan 2011

**Jarad Niemi** and Mike West. "Nonlinear dynamic models for single-cell time-lapse microscopy." Duke Center for Systems Biology Retreat, 18 May 2009

**Jarad Niemi** "Adaptive mixture filtering: an alternative to particle filtering?" SAMSI Sequential Monte Carlo Kickoff Workshop, 8 September 2008.

**Jarad Niemi** and Mike West. "Bayesian parameter estimation for systems biological models of dynamic cellular networks." SAMSI Biosystems Modeling Workshop, 5 March 2007.

**Jarad Niemi** and Mike West. "Bayesian parameter estimation for systems biological models of dynamic cellular networks." 1<sup>st</sup> Annual Duke Systems Biology Symposium, 14 September 2006.

**Jarad Niemi** and Mike West. "Bayesian parameter estimation for systems biological models of dynamic cellular networks." 8<sup>th</sup>Valencia International Meeting on Bayesian Statistics, 5 June 2006.

# News interviews (hyperlinked)

CNBC, CBS Moneywatch, MSN MoneyCentral, Slate (2009, 2011, 2012, 2013), The Chronicle

# Courses taught

# Regular courses

| Fall 2014   | 401A     | Statistical Methods for Research Workers                               |  |  |
|-------------|----------|--|--|--|
|             | 330      | Probability and Statistics for Computer Science                        |  |  |
| Spring 2014 | 544      | Bayesian Statistics  |  |  |
| Fall 2013   | 401A     | Statistical Methods for Research Workers                               |  |  |
|             | 615      | Advanced Bayesian Methods  |  |  |
| Spring 2013 | 544      | Bayesian Statistics  |  |  |
| Fall 2012   | 401A     | Statistical Methods for Research Workers                               |  |  |
|             | HON 321E | Paradox  |  |  |
| Spring 2012 | 401A     | Statistical Methods for Research Workers                               |  |  |
| Fall 2011   | 615      | Advanced Bayesian Methods  |  |  |
| Spring 2011 | 120C     | Probability and Statistics (categorical, nonparametrics, and Bayesian) |  |  |
|             | 230      | Seminars and Projects in Statistical Consulting                        |  |  |
| Winter 2011 | 220B     | Advanced Statistical Methods (GLMs)                                    |  |  |
| Fall 2010   | 120B     | Probability and Statistics   |  |  |
| Spring 2010 | 120B     | Probability and Statistics (estimation and testing)                    |  |  |
|             | 230      | Seminar and Projects in Statistical Consulting                         |  |  |
| Winter 2010 | 262      | Applied Bayesian Time Series   |  |  |

# Independent studies

| Spring      | 596 | Parallelizing block composite likelihoods                |
|-------------|-----|--|
| Winter 2011 | 596 | Bayesian inference in stochastic chemical kinetic models |
|             | 596 | Bayesian inference in ecological models                  |
|             | 510 | Preparation for applied statistics qualifying exam       |
| Fall 2010   | 596 | Bayesian inference in graphical processing units         |
| Spring 2010 | 596 | Importance sampling on graphical models                  |

## Short courses

| Apr 2010 | Sequential Monte Carlo methods            | ASA-Albuquerque | $\frac{1}{2}$ -day |
|----------|---|-----------------|--------------------|
| Dec 2009 | Introduction to statistical analysis in R | NRRI            | $\bar{2}$ -day     |

### Grants, Honors, and Awards

Nettleton, D. Liu, P., Niemi, J., Schnable. P. Hierarchical Modeling and Parallelized Bayesian Inference for the Analysis of RNAseq Data, National Institutes of Health, September 1, 2013 to May 31, 2017 [\$ 1,088,156] (2013)

Iowa State University Health Research Initiative on Infectious Diseases (investigator) [\$150,000] (2012)

World Meeting of the International Society for Bayesian Analysis Early Career Researchers Travel Grant [\$500] (2012)

Iowa State University grant for GPU cluster and RA support [\$88,000] (2011)

University of California Regents Junior Faculty Fellowship [\$7,500] (2011)

MCMSki3 conference travel support [\$650] (2011)

NVIDIA Academic Partnership Program award [2×C2050 GPGPUs] (2010)

Section on Bayesian Statistical Science Student Paper Competition winner [\$1,000] (2009)

International Society for Disease Surveillance Technical Contest 2<sup>nd</sup> place (2008)

NSF National Research Service Award Fellowship (2003–2004)

# Memberships

American Association for the Advancement of Science

American Statistical Association

International Society for Bayesian Analysis

International Society for Disease Surveillance

## Service

## Refereeing

Journal of Computational and Graphical Statistics (2014), Technometrics (2013), Electronic Journal of Statistics (2013), Journal of the American Statistical Association (2014,2012), Journal of Quantitative Analysis in Sports (2014,2012), Statistics and Computing (2012), Journal of Agricultural, Biological, and Environmental Statistics (2012 x 2), Current Computer-Aided Drug Design (2012), IEEE Trans. on Systems, Man, and Cybernetics-Part C: Applications and Reviews (2011), Journal of Agricultural, Biological, and Environmental Statistics (2011), Applied Stochastic Models in Business and Industry (2011), Annals of Applied Statistics (2011×2), Computational Statistics & Data Analysis (2010), Electronic Journal of Statistics (2010), International Society for Disease Surveillance conference (2010–2013), Journal of Statistical Education (2009)

### Conference organization

- International Society for Disease Surveillance Analytical Methods track chair (2012,2013)
- International Society for Disease Surveillance session chair (2010)
- Joint Statistical Meetings, Section on Statistical Computing session chair (2009)

Other statistical community service (hyperlinked if appropriate)

- ISBA Web Editor (2013-present)
- Professional blog (http://jarad.me/blog.html) (2009-present)
- News Editor for Significance Magazine (2010–2012)
- Professional twitter account (@NiemiSTAT)
- Boy Scouts of America troop presentation on estimating player abilities in basketball

## University service

- Iowa State University Faculty Senate departmental representative (2012–present)
- UCSB faculty legislature, member (2010–2011)
- Center for research in financial mathematics and statistics, UCSB, member (2010–2011)
- Quantitative methods in the social sciences, UCSB, core faculty (2009–2011)

## Departmental service

- Iowa State University Department of Statistics & Statistical Laboratory
  - \* Statistics/BCB search committee (2014–present)
  - \* Director of Statistical Consulting search committee (2014–present)
  - \* Preparing Future Faculty mentor for Will Landau (2013–2014)
  - \* Department Chair search committee (2012–2014)
  - \* Computational Statistics working group, chair (2011–2014)
  - \* STAT-ers advisor (2011-present)
  - \* Computation advisory committee, member (2011–present)
  - \* Social committee (2011-present)
  - \* Graduate student committees, see Table below
- UCSB Department of Statistics & Applied Probability
  - \* Graduate student committees, see Table below
  - \* Applied statistics qualifying exam committee, UCSB (2010–2011)
  - \* Computing committee, UCSB (2009–2011)
  - \* Library liaison, UCSB (2009-2011)

| Student                | School | Department | Degree | Completed   | Chair    |
|------------------------|--------|------------|--------|-------------|----------|
| Casey Oliver           | ISU    | STAT       | MS     | 2012        | Co-chair |
| Nicholas Michaud       | ISU    | STAT       | MS     | 2012        |          |
| Rachel Fahrenholtz     | ISU    | STAT       | MS     | 2012        |          |
| Anna MacDonald         | ISU    | NREM       | MS     | 2012        |          |
| Andrew Lithio          | ISU    | STAT       | MS     | 2013        |          |
| Carson Sievert         | ISU    | STAT       | MS     | 2013        |          |
| Eddie Shea             | ISU    | NREM       | MS     | 2013        |          |
| Ignacio Alvarez-Castro | ISU    | STAT       | MS     | 2014        | Chair    |
| Andrea Kaplan          | ISU    | STAT       | MS     | 2014        |          |
| Samuel Benidt          | ISU    | STAT       | MS     | 2014        |          |
| Minliang Yang          | ISU    | A B E      | MS     | 2014        |          |
| Rayma Cooley           | ISU    | NREM       | MS     | 2014        |          |
| Rebecca Reeves         | ISU    | NREM       | MS     | 2014        |          |
| Adam Martin-Schwarze   | ISU    | STAT       | MS     | In progress | Chair    |
| Eric Mittman           | ISU    | STAT       | MS     | In progress | Chair    |
| Greg Krahn             | ISU    | AN S       | MS     | In progress |          |
| Brady McNeil           | ISU    | AN S       | MS     | In progress |          |
| Yihui Xie              | ISU    | STAT       | PhD    | 2013        |          |
| Caitlyn Abell          | ISU    | AN S       | PhD    | 2013        |          |
| Matthew Simpson        | ISU    | STAT       | PhD    | In progress | Chair    |
| Ignacio Alvarez-Castro | ISU    | STAT       | PhD    | In progress | Chair    |
| Will Landau            | ISU    | STAT       | PhD    | In progress | Chair    |
| Nicholas Michaud       | ISU    | STAT       | PhD    | In progress | Chair    |
| Andreea Erciulescu     | ISU    | STAT       | PhD    | In progress |          |
| David Osthus           | ISU    | STAT       | PhD    | In progress |          |
| Kenneth Wakeland       | ISU    | STAT       | PhD    | In progress |          |
| Vianey Leos            | ISU    | STAT       | PhD    | In progress |          |
| Luvenia Hellams        | ISU    | STAT       | PhD    | In progress |          |
| Xin Yin                | ISU    | STAT       | PhD    | In progress |          |
| Hao Cheng              | ISU    | AN S       | PhD    | In progress |          |
| Jian Zeng              | ISU    | AN S       | PhD    | In progress |          |
| Tyler Streeter         | ISU    | E CPE      | PhD    | In progress |          |
| Anwen Yin              | ISU    | ECON       | PhD    | In progress |          |
| Danny Sheinson         | UCSB   | PSTAT      | MS     | 2011        | Co-chair |
| Chi-Yang Chiu          | UCSB   | PSTAT      | MS     | 2011        |          |
| Danny Sheinson         | UCSB   | PSTAT      | PhD    | 2014        | Co-chair |

Table 1: Graduate student committees