

Dawn B. Woodard

Cornell University • School of Operations Research and Information Engineering
206 Rhodes Hall • Ithaca, NY 14853 • <http://people.orie.cornell.edu/woodard>

EDUCATION

Ph.D. in Statistics, Duke University Department of Statistical Science	8/2002 - 12/2007
“Conditions for rapid and torpid mixing of parallel and simulated tempering on multimodal distributions.” Advised by Scott Schmidler.	
M.S. in Statistics, Duke University Department of Statistical Science	8/2002 - 6/2004
B.S. in Mathematical and Computational Science, Stanford University	9/1997 - 6/2001
With honors and distinction.	

PROFESSIONAL POSITIONS

Associate Professor (with tenure), Cornell University (Ithaca, NY) School of Operations Research and Information Engineering (ORIE) and Department of Statistical Science	7/2014 - Current
Visiting Scholar, Stanford University (Palo Alto, CA)	1/2015 - Current
Visiting Researcher, Microsoft Research (Redmond, WA)	8/2014 - 12/2014
Assistant Professor, Cornell University (Ithaca, NY)	7/2008 - 6/2014
Visiting Fellow, Isaac Newton Institute for Mathematical Sciences (Cambridge, U.K.)	4/2014 - 5/2014
Consultant, Microsoft Research (Mountain View, CA)	2/2009 - 5/2014
Consultant, Tibco Corp. (Durham, NC)	5/2006 - 12/2009
Intern, SAS Institute (Cary, NC)	5/2005 - 8/2005
Research Assistant, Duke University Institute of Statistics and Decision Sciences Supervised by Alan Gelfand	8/2003 - 12/2004
Intern, Hewlett-Packard Laboratories (Palo Alto, CA)	5/2003 - 8/2003
Research Assistant, Stanford University Statistics Department Supervised by Susan Holmes	9/2001 - 12/2001
Research Assistant, Stanford University Mathematics Department Supervised by Gunnar Carlsson	6/2001 - 9/2001
Intern, Peakstone Corp. (Sunnyvale, CA)	6/2000 - 6/2001
Intern, Rockwell Science Center (Palo Alto, CA)	6/1999 - 6/2000

AWARDS

Visiting Fellowship, Isaac Newton Institute for Mathematical Sciences	2014
Ralph S. Watts '72 Excellence in Teaching Award, Cornell University College of Engineering	2012

Best Poster Award , 3 rd IMS/ISBA Joint Meeting (“MCMSki 2”)	2008
Gertrude M. Cox Scholar , American Statistical Association	2003
University Scholar , Duke University	2002
James B. Duke Fellow , Duke University	2002

ARTICLES: REFEREED ARCHIVAL

- [1] Zhou, Z., D.S. Matteson, **D.B. Woodard**, S.G. Henderson and A.C. Micheas (2014). A spatio-temporal mixture model for point processes with application to ambulance demand. Winner of the 2014 American Statistical Association Health Policy Statistics Student Paper Competition and Finalist in the 2013 INFORMS Data Mining Student Paper Competition. In press, *Journal of the American Statistical Association*.
- [2] **Woodard, D.B.**, C. Crainiceanu, and D. Ruppert (2013). Hierarchical adaptive regression kernels for regression with functional predictors. *Journal of Computational and Graphical Statistics*, 22: 777-800.
- [3] **Woodard, D.B.** and J.S. Rosenthal (2013). Convergence rate of Markov chain methods for genomic motif discovery. *Annals of Statistics*, 41: 91-124.
- [4] **Woodard, D.B.**, T.M.T. Love, S.W. Thurston, D. Ruppert, S. Sathyanarayana, and S.H. Swan (2013). Latent factor regression models for grouped outcomes. *Biometrics*, 69: 785-794.
- [5] Westgate, B.S., **D.B. Woodard**, D.S. Matteson and S.G. Henderson (2013). Travel time estimation for ambulances using Bayesian data augmentation. *Annals of Applied Statistics*, 7: 1139-1161.
- [6] **Woodard, D.B.** (2013). Comment on article by Schmidl et al. *Bayesian Analysis*, 8: 23-26.
- [7] **Woodard, D.B.** and M. Goldszmidt (2011). Online model-based clustering for crisis identification in distributed computing. *Journal of the American Statistical Association*, 106: 49-60.
- [8] **Woodard, D.B.**, D.S. Matteson, and S.G. Henderson (2011). Stationarity of Generalized Autoregressive Moving Average Models. *Electronic Journal of Statistics*, 5: 800-828.
- [9] Matteson, D.S., M.W. McLean, **D.B. Woodard**, and S.G. Henderson (2011). Forecasting Emergency Medical Service call arrival rates. *Annals of Applied Statistics*, 5: 1379-1406.
- [10] Goldszmidt, M., **D.B. Woodard** and P. Bodik (2011). Real-time identification of performance problems in large distributed systems. In A. Srivastava and J. Han, ed., *Machine Learning and Knowledge Discovery for Engineering Systems Health Management*. Boca Raton, FL: Taylor and Francis. 502 pp.
- [11] **Woodard, D.B.**, R.L. Wolpert, and M.A. O’Connell (2010). Spatial inference of nitrate concentrations in groundwater. *Journal of Agricultural, Biological, and Environmental Statistics*, 15: 209-227.
- [12] **Woodard, D.B.**, S.C. Schmidler and M. Huber (2009). Sufficient conditions for torpid mixing of parallel and simulated tempering. *Electronic Journal of Probability*, 14: 780-804.
- [13] **Woodard, D.B.**, S.C. Schmidler, and M. Huber (2009). Conditions for rapid mixing of parallel and simulated tempering on multimodal distributions. *Annals of Applied Probability*, 19: 617-640.
- [14] **Woodard, D.B.**, A.E. Gelfand, W.E. Barlow, and J.G. Elmore (2007). Performance assessment for radiologists interpreting screening mammography. *Statistics in Medicine*, 26: 1532-1551.

ARTICLES: REFEREED CONFERENCE

- [15] Singhvi D., S. Singhvi, P.I. Frazier, S.G. Henderson, E. O'Mahony, D.B. Shmoys and **D.B. Woodard** (2015) Predicting bike usage for New York City's bike sharing system. *AAAI 2015 Workshop on Computational Sustainability*. Palo Alto, CA: Association for the Advancement of Artificial Intelligence.
- [16] Bodik, P., M. Goldszmidt, A. Fox, **D.B. Woodard**, and H. Andersen (2010) Fingerprinting the datacenter: Automated classification of performance crises. In G. Muller, ed., *EuroSys 2010: Proc. of the 5th European Conference on Computer Systems*, pp. 111-124. New York: Association for Computing Machinery.
- [17] O'Connell, M., **D.B. Woodard**, J. Hoffman, and A. Jack (2007). Bayesian modeling with S-PLUS and the S+flexBayes library. In D. Spruck, ed., *Proc. of the 3rd Pharmaceutical Users Software Exchange Conference, #ST07*, 11 pages. Kent, U.K.: Pharmaceutical Users Software Exchange.

ARTICLES: SUBMITTED/REPORTS (see <http://people.orie.cornell.edu/woodard/publications.html>)

- [18] Schmidler, S.C. and **D.B. Woodard**. Lower bounds on the convergence rates of adaptive MCMC methods. Under revision for *Annals of Statistics*.
- [19] **Woodard, D.B.**, R. Bilina Falafala and C. Crainiceanu. Model-based image segmentation via Monte Carlo EM, with application to DCE-MRI. Under revision for *Journal of Computational and Graphical Statistics*.
- [20] Westgate, B.S., **D.B. Woodard**, D.S. Matteson and S.G. Henderson. Large-network travel time distribution estimation for ambulances. Under revision for *European Journal of Operational Research*.
- [21] L. Bornn, N. Pillai, A. Smith, and **D.B. Woodard** (2014). One pseudo-sample is enough in approximate Bayesian computation MCMC. Submitted, *Biometrika*.
- [22] **Woodard, D.B.** (2014). A lower bound on the mixing time of uniformly ergodic Markov chains in terms of the spectral radius. Technical report, arXiv:1405.0028. URL: <http://arxiv.org/abs/1405.0028>
- [23] **Woodard, D.B.** (2008). Detecting poor mixing of posterior samplers due to multimodality. Technical report, Duke University Department of Statistical Science. Updated Feb. 2011.

GRANTS

U.S. National Science Foundation (NSF), PI: "Asymptotically Efficient and Efficiently Computable Bayesian Estimation," 07/2014-06/2017. Award #DMS-1406599; \$120,000. NSF Statistics Program, Division of Mathematical Sciences, Directorate for Mathematical & Physical Sciences.

NSF, PI: "Bayesian Computation, Guaranteed Efficient (or Intractable)," 07/2012-06/2015. Award #DMS-1209103; \$150,000. NSF Statistics Program, Division of Mathematical Sciences, Directorate for Mathematical & Physical Sciences.

NSF, PI: "Statistical Analysis of Emergency Services Data," with co-PIs Shane Henderson and David Matteson, 07/2009-06/2012. Award #CMMI-0926814; \$329,936

(approximately 50% to PI Woodard). NSF Service Enterprise Systems Program, Division of Civil, Mechanical, and Manufacturing Innovation, Directorate for Engineering.

PROFESSIONAL SERVICE

Council of Sections Representative, American Statistical Association Section on Bayesian Statistical Sciences (2014-2016)

Associate Editor for:

- Journal of the American Statistical Association: Theory & Methods (4/2014 - Current)
- Stochastics: An International Journal of Probability and Stochastic Processes (6/2013 - Current)
- Electronic Journal of Statistics (1/2012 - 12/2012)

Panelist Service:

- Panelist, U.S. National Science Foundation (NSF) Statistics Program (Division of Mathematical Sciences, Directorate for Mathematical & Physical Sciences)
- Panelist, NSF Service Enterprise Systems Program (Division of Civil, Mechanical, and Manufacturing Innovation, Directorate for Engineering)
- Mail reviewer, NSF BIGDATA solicitation (Directorate for Computer & Information Science & Engineering)
- Mail reviewer, “Futur et Ruptures” (a research funding program by the French “Fondation Telecom”)

Conference Leadership

- Organizer, invited session at the ISI World Statistics Congress (2015).
- Organizer, invited session at the Joint Statistical Meetings (2015).
- Co-chair of the Scientific Committee and organizer of an invited session for the 4th IMS/ISBA Joint Meeting (“MCMSki 4”, 2014).
- Organizer of an invited session for the International Society of Bayesian Analysis World Meeting (2014).
- Organizer, invited session and chair, invited session at the Joint Statistical Meetings (2014).
- Organizer, invited session and Chair, contributed session at the Joint Statistical Meetings (2013).
- Organizer, special topic session at the Meeting of the International Society for Bayesian Analysis (2012).
- Chair, invited session at the Meeting of the Eastern North American Region of the International Biometric Society (2011).
- Organizer and chair, topic-contributed session at the Joint Statistical Meetings (2010).

Refereeing

Journal of the American Statistical Association (2010,2011,2014,2015). Statistics and Computing (2012,2014,2015). Bernoulli (2012,2014). Journal of Multivariate Analysis (2011, 2014). Management Science (Stochastic Models and Simulation Department, 2013). Annals of Statistics (2013). Journal of Computational and Graphical Statistics (2009,2010,2012,2013).

Journal of Multivariate Analysis (2011,2013). Journal of Statistical Planning and Inference (2013). Random Structures & Algorithms (2012). Journal of the Royal Statistical Society (2011, 2010). Electronic Journal of Statistics (2011). Bayesian Analysis (2011). Computational Statistics & Data Analysis (2011). Statistics in Medicine (2011). Journal of Agricultural, Biological, & Environmental Statistics (2010). Medical Decision Making (2007,2010). Biometrika (2009). Biometrics (2009). Statistical Methodology (2004). **Book reviewer:** Birkhauser (2013).

Software Packages

Develops and maintains publicly available software packages for applying her published methods (see <http://people.orie.cornell.edu/woodard/software.html>)

- S-PLUS package “hark”, 2012. Implements the methods from publication [2]
- S-PLUS package “timeClust”, 2010. Implements the methods from publication [6]
- S-PLUS package “spatialLrf”, 2009. Implements the methods from publication [10]

Professional Memberships

American Statistical Association, International Society of Bayesian Analysis.

CORNELL SERVICE

Graduate Field Memberships: Operations Research (OR; since 9/2008) and Statistics (since 2/2009)

Ph.D. Theses Supervised (as Sole Major Advisor)

- **Galina Nogin** (Statistics Field, expected graduation 2018): “Driving Time Prediction for Vehicles Using Cellular Phone Data.”
- **Bradford Westgate** (OR Field, graduated 8/2013): “Travel Time Distribution Estimation for Ambulances using GPS Data.”

Ph.D. Students for whom Woodard is a Minor Advisor

- **Hwang Kim** (Johnson Graduate School of Management, 8/2014).
- **Zhengyi Zhou** (Center for Applied Mathematics): “Spatio-temporal demand prediction for ambulances,” expected graduation 8/2015.
- **Ozan Irsoy** (Department of Computer Science): expected graduation 08/2017.

Research Projects with Ph.D. Students for whom Woodard is not Major/Minor Advisor

- “**Model-based image segmentation via Monte Carlo EM, with application to DCE-MRI,**” with Roseline Bilina Falafala (OR Field).
- “**Functional data analysis methods for predicting process run time in computing systems,**” with Wei Chen (OR Field).
- “**Spatio-temporal modeling of ambulance demand,**” with James Li (Statistics Field), Mathew McLean (OR Field), and Matthew Schneider (Statistics Field).

M.Eng./M.P.S. Projects Supervised

- “New York Presbyterian Hospital: Prediction of Surgery Duration,” 4 ORIE M.Eng. students (2013-2014). Honorable Mention in the Silent Hoist and Crane Materials Handling Competition, Cornell University.

- “Walmart.com: Product Dimension Analysis,” 4 ORIE M.Eng. students (2012-2013). Winner of the Silent Hoist and Crane Materials Handling Prize, Cornell University.
- “Ernst & Young: Priority Account Strategy Analysis,” 3 ORIE M.Eng. students and 2 Statistics M.P.S. students (2011-2012).
- “Long-Short U.S. Healthcare Trading Strategy,” 5 ORIE M.Eng. students (2010-2011). Co-supervised by David Ruppert.

Undergraduate Research Project Supervision

- Divya Singhvi and Somya Singhvi (ORIE): “Optimal franchise location,” Summer-Fall 2014.
- Daniel Southern (ORIE): “Deciding when to assign a supervisor to Cornell HelpDesk cases,” Spring 2011.
- Jisun Song (Harvard student, co-supervised by Harvard Assistant Professor Natesh Pillai): “Adaptive variable-at-a-time independence Metropolis,” 2011.

Faculty Advisor, Cornell Data Science Club

Committee Service

- College of Engineering: Undergraduate Education Strategic Planning Committee (2011)
- School of ORIE:
 - Faculty Search Committee (2011-2012, 2012-2013, 2013-2014)
 - Strategic Planning Committee (2010)
 - Committee on the Faculty Evaluation Process (2009)
- Department of Statistical Science: Faculty Search Committee (2013-2014)
- Field of Operations Research: Ph.D. Admissions Committee (2011-2012)
- Field of Statistics: Ph.D. Admissions Committee (2009-2010, 2012-2013)

Departmental Service

- ORIE colloquium series co-organizer (2010-2013, with P. Frazier).

Professional Development

- Participant, Academic search committee training workshop, Cornell Univ., 2012.
- Participant, 13th Annual Cornell University Diversity Update Conference, 2011.

TEACHING

Courses Taught

- **Statistical Principles**, ORIE 6700: Fall 2010 (16 enrolled), Fall 2011 (16 enrolled), Fall 2013 (24 enrolled)
- **Statistical Data Mining**, ORIE 4740: Fall 2008 (53 enrolled), Fall 2009 (61 enrolled), Spring 2011 (59 enrolled), Spring 2012 (65 enrolled), Spring 2013 (78 enrolled), Spring 2014 (69 enrolled)
- **Basic Engineering Probability and Statistics**, ENGRD 2700: Spring 2009 (141 enrolled), Fall 2012 (220 enrolled)
- **Monte Carlo Methods**, ORIE 7791: Spring 2009 (8 enrolled)

- **Duke University: Introductory Statistics and Probability**, STA 101: Summer 2004 (20 enrolled)
- See “Cornell Service” for student project supervision

Course Development

- Revamped an undergraduate / Master’s course on Statistical Data Mining (ORIE 4740). Developed a new set of lecture slides, case studies, computing labs, linked experiential homework assignments, and a group final project on a novel data analysis.
- Helped revamp ENGRD 2700 (taught to 300+ students / year). As part of this effort developed a new set of lecture slides focusing on core concepts, illustrated via numerous examples, demos, and graphics.
- Expanded curriculum for Statistical Principles (ORIE 6700) by increasing coverage of Bayesian inference.
- Developed a new Ph.D. topics course on Monte Carlo methods.

Instructor Development

- Participant, Workshop on “Crafting a Great Large Lecture Class,” Cornell Univ., 2013.
- Participant, Workshop on “Teaching for Active Learning,” Cornell Univ., 2010.

SEMINARS

Joint Statistical Meetings (Seattle, WA) <i>Invited seminar: “Efficiency of Markov Chain Monte Carlo for Parametric Statistical Models.”</i>	08/2015
Joint Institute of Mathematical Statistics-Microsoft Research Workshop on Statistics and Data Science <i>Invited seminar</i>	06/2015
Workshop on Intractable Likelihoods (Bristol, U.K.) <i>Invited seminar</i>	05/2015
University of Hong Kong, School of Business Seminar <i>Invited seminar: “Statistics for Ambulance Fleet Management.”</i>	03/2015
Microsoft Research Redmond <i>Invited seminar: “Driving Time Prediction Using Mobile Phone Location Data.”</i>	01/2015
University of Washington, Yahoo! Machine Learning Seminar <i>Invited seminar: “Driving Time Prediction Using Mobile Phone Location Data.”</i>	01/2015
University of Washington, Department of Statistics Colloquium <i>Invited seminar: “Travel Time Prediction for Ambulances.”</i>	01/2015
International Biomedical and Astronomical Signal Processing Frontiers Workshop (Villars-sur-Ollon, Switzerland) <i>Invited seminar: “Model-based Image Segmentation via Monte Carlo EM, with Application to DCE-MRI.”</i>	01/2015
Microsoft Research Redmond <i>Invited seminar: “Travel Time Prediction for Ambulances.”</i>	12/2014
INFORMS Annual Meeting (San Francisco, CA) <i>Invited seminar: “Statistics for Ambulance Fleet Management.”</i>	11/2014
University of California at Berkeley, Institute of Transportation Studies Colloquium <i>Invited seminar: “Travel Time Prediction for Ambulances.”</i>	09/2014

Microsoft Research Silicon Valley, Theory Seminar	09/2014
<i>Invited seminar: "Characterizing the Efficiency of Markov Chain Monte Carlo."</i>	
Joint Statistical Meetings (Boston, MA)	08/2014
<i>Invited seminar: "One Pseudo-Sample is Optimal in Approximate Bayesian Computation."</i>	
International Society of Bayesian Analysis World Meeting (Cancun, Mexico)	07/2014
<i>Invited seminar: "Efficiency of Markov Chain Monte Carlo for Parametric Statistical Models."</i>	
Computational Statistics Reading Group, Oxford University (Oxford, U.K.)	05/2014
<i>Invited seminar: "Statistical Methods for Ambulance Fleet Management."</i>	
Programme on Monte Carlo Inference for Complex Statistical Models, Isaac Newton Institute for Mathematical Sciences (Cambridge, U.K.)	04/2014
<i>Invited seminar: "Small-Feature Model-Based Clustering using Monte Carlo EM."</i>	
Workshop on Advances in Scalable Bayesian Computation (Banff, Canada)	03/2014
<i>Invited seminar: "Small-Feature Model-Based Clustering using Monte Carlo EM."</i>	
4th IMS-ISBA Joint Meeting ("MCMSki 4"; Chamonix, France)	01/2014
<i>Invited seminar: "Efficiency of Markov Chain Monte Carlo for Parametric Statistical Models."</i>	
University of North Carolina at Chapel Hill Department of Statistics and Operations Research	11/2013
<i>Invited seminar: "Statistical Methods for Ambulance Fleet Management."</i>	
Cornell University Statistics Department	11/2013
<i>Invited seminar: "Statistics for Ambulance Fleet Management."</i>	
Joint Statistical Meetings (Montreal, Canada)	08/2013
<i>Invited seminar: "Efficiency of Markov Chain Monte Carlo for Bayesian Computation."</i>	
Workshop on New Directions in Monte Carlo Methods (Gainesville, FL)	01/2013
<i>Invited seminar: "Travel time estimation on a road network using Bayesian data augmentation."</i>	
Joint Statistical Meetings (San Diego, CA)	08/2012
<i>Topic contributed seminar: "Latent factor regression models for grouped outcomes"</i>	
8th World Congress in Probability and Statistics (Istanbul, Turkey)	07/2012
<i>Invited seminar: "Efficiency of Markov chain methods for genomic motif discovery."</i>	
International Society of Bayesian Analysis Meeting (Kyoto, Japan)	06/2012
<i>Special topic seminar: "Scalability of Markov chain methods for genomic motif discovery."</i>	
Wharton (University of Pennsylvania) Statistics Department	04/2012
<i>Invited seminar: "Efficiency of Markov chain methods for genomic motif discovery."</i>	
Cornell University School of Operations Research and Info. Eng.	04/2012
<i>Invited seminar: "Efficiency of Markov chain methods in Bayesian statistics."</i>	
Workshop on Monte Carlo Methods and Applications (Banff, Canada)	03/2012
<i>Invited seminar: "Efficiency of Markov chain methods for genomic motif discovery."</i>	
University of Rochester Department of Biostatistics and Computational Biology	02/2012
<i>Invited seminar: "HARK: A new method for regression with functional predictors, with application to the Sleep Heart Health Study."</i>	
Case Studies in Bayesian Statistics and Machine Learning Conference (Pittsburg, Pennsylvania)	10/2011
<i>Young researcher seminar: "Online model-based clustering for crisis identification in distributed computing."</i>	
Duke University Department of Statistical Science	10/2011
<i>Invited seminar: "Online model-based clustering for crisis identification in distributed computing."</i>	
Seventh Workshop on Bayesian Inference in Stochastic Processes (Getafe, Spain)	09/2011
<i>Contributed seminar: "Hierarchical adaptive regression kernels for regression with functional"</i>	

predictors.”

- Meeting of the Statistical Society of Canada (Nova Scotia, Canada)** 06/2011
Invited seminar: “Online model-based clustering for crisis identification in distributed computing.”
- Harvard University Department of Statistics** 04/2011
Invited seminar: “Online model-based clustering for crisis identification in distributed computing.”
- Meeting of the Eastern North American Region of the International Biometrics Society (Miami, Florida)** 03/2011
Invited seminar: “HARK: A new approach for regression with functional predictors.”
- AdapSkIII Workshop on Advances in Monte Carlo (Park City, Utah)** 01/2011
Invited seminar: “Convergence rates of Markov chain methods for genomic motif discovery.”
- University of Minnesota School of Statistics** 11/2010
Invited seminar: “Online model-based clustering for crisis identification in distributed computing.”
- Joint Seminar Series on Adaptive Monte Carlo Methods, Paris** 10/2010
Invited seminar: “Convergence rate of Markov chain Monte Carlo methods for genomic motif discovery.”
- Cornell University Probability Seminar** 09/2010
Invited seminar: “Convergence rate of Markov chain Monte Carlo methods for genomic motif discovery.”
- International Conference on Monte Carlo and Quasi-Monte Carlo (Warsaw, Poland)** 08/2010
Invited seminar: “Lower bounds on the mixing time of adaptive MCMC methods.”
- Joint Statistical Meetings (Vancouver, Canada)** 08/2010
Topic contributed seminar: “Hierarchical adaptive regression kernels for regression with functional predictors.”
- University of Washington Department of Statistics Colloquium** 11/2009
Invited seminar: “Model-based clustering for online crisis identification in distributed computing.”
- University of Toronto Department of Statistics Colloquium** 11/2009
Invited seminar: “Lower bounds on the mixing time of adaptive Monte Carlo methods.”
- Cornell University Department of Statistics** 10/2009
Invited seminar: “Model-based clustering for online crisis identification in distributed computing.”
- Cornell University Econometrics Seminar** 10/2009
Invited seminar: “Model-based clustering for online crisis identification in distributed computing.”
- Joint Statistical Meetings (Washington, D.C.)** 08/2009
Invited seminar: “Multi-scale spatial inference of pollutant concentrations.”
- Symposium on Optimization in MCMC (Univ. of Warwick)** 06/2009
Invited seminar: “Lower bounds on the mixing time of adaptive Monte Carlo methods.”
- Johns Hopkins School of Public Health Dept. of Biostatistics** 04/2009
Invited seminar: “Physician performance assessment / Spatial inference of pollutant concentrations.”
- Meeting of the Eastern North American Region of the International Biometrics Society (San Antonio, Texas)** 03/2009
Contributed seminar: “Performance assessment for radiologists interpreting screening mammography.”

Cornell Univ. School of Operations Research and Info. Eng.	10/2008
<i>Invited seminar: "Spatial inference of nitrate concentrations in groundwater."</i>	
Cornell University Probability Seminar	10/2008
<i>Invited seminar: "Bounds on the mixing time of a class of adaptive Monte Carlo methods."</i>	
Cornell Univ. School of Operations Research and Info. Eng.	03/2008
<i>Invited seminar: "Physician performance assessment / mixing time bounds for parallel and simulated tempering."</i>	
Univ. of California at Berkeley Department of Statistics	02/2008
<i>Neyman Seminar: "Conditions for rapid and torpid mixing of parallel and simulated tempering."</i>	
Carnegie Mellon University Department of Statistics	02/2008
<i>Invited seminar: "Conditions for rapid and torpid mixing of parallel and simulated tempering."</i>	
Univ. of Massachusetts at Amherst Dept. of Mathematics and Statistics	02/2008
<i>Invited seminar: "Conditions for rapid and torpid mixing of parallel and simulated tempering."</i>	
University of Florida Department of Statistics	02/2008
<i>Invited seminar: "Conditions for rapid and torpid mixing of parallel and simulated tempering."</i>	
University of Iowa Department of Statistics	02/2008
<i>Invited seminar: "Conditions for rapid and torpid mixing of parallel and simulated tempering."</i>	
Breast Cancer Surveillance Consortium Meeting (Vancouver, B.C.)	04/2005
<i>Invited seminar: "Quantifying uncertainty in performance assessment for radiologists."</i>	