Curriculum Vitæ

Haley K. Hedlin

PERSONAL INFORMATION

Quantitative Sciences Unit
Department of Medicine
Stanford University

1070 Arastradero Rd.
Palo Alto, CA 94304
hedlin@stanford.edu

EDUCATION

2011 PhD, Biostatistics
Bloomberg School of Public Health, Johns Hopkins University, Baltimore MD
Thesis Title: *Statistical methods for intersubject analysis of neuroscience data*
Thesis Advisor: Brian Caffo

2006 BA, Mathematics; Statistics and Linguistics concentrations
magna cum laude with Distinction from the Statistics Department
St. Olaf College, Northfield MN
Advisor: Julie Legler

PROFESSIONAL EXPERIENCE

2013- **Senior Biostatistician**
Quantitative Sciences Unit
Department of Medicine, Stanford University

2011-2013 **Postdoctoral Research Associate in Statistics**
Five College Consortium (Amherst, Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts Amherst)

2008-2011 **Biostatistician**
Center for Nursing Research and Korean Resource Center
JHU School of Nursing

2008-2011 **Tutor and Consultant**
Johns Hopkins School of Public Health (JHSPH)

2007-2011 **Teaching Assistant**
Department of Biostatistics
JHSPH

2006-2011 **Trainee**
JHSPH Biostatistics Environmental Training Grant

Nov-Dec 2009 **Instructor**
College of Health Sciences
American University of Armenia

Jan 2009	**Co-Instructor** Global Health and Biostatistics in Geneva St. Olaf College
Summer 2007	**Summer Intern, Program in Biomedical Research** Office of Biostatistics Research National Heart Lung and Blood Institute of the National Institutes of Health Supervised by Dr. Nancy Geller
Jan 2006	**Math Practicum Participant** St. Olaf College
Sep 2004-May 2006	**Undergraduate Research Fellow** Center for Interdisciplinary Research, St. Olaf College Collaborated with Dr. Rika Ito and Dr. Maggie Broner Supervised by Dr. Julie Legler Funded by a VIGRE-NSF grant
Jun 2005-Aug 2005	**Summer Research Fellow** Center for Interdisciplinary Research, St. Olaf College Collaborated with Dr. Maggie Broner Supervised by Dr. Julie Legler Funded by a VIGRE-NSF grant
Jan 2005	**Global Health and Biostatistics in Geneva Participant** St. Olaf College
Jun 2004-Aug 2004	**Undergraduate Summer Researcher** St. Olaf College Collaborated with Dr. Rika Ito Supervised by Dr. Julie Legler

HONORS AND AWARDS

2010	JHSPH Delta Omega Biostatistics Student Poster Competition - First Place
2010	Distinguished Student Paper Award, International Biometric Society's Eastern North American Region (ENAR)
2009, 2010	Joseph Zeger Travel Award
2009	June B. Culley Award
2005-2006	S.A. Bye Memorial Scholarship
2005-2006	Olness Scholarship
2005	NSF Summer Undergraduate Research Fellowship
2004-2006	NSF Undergraduate Research Fellowship
2002-2006	St. Olaf Dean's List
2002-2006	Robert C. Byrd Honors Scholarship
2002-2006	Women's Western Golf Foundation Scholarship
2002-2006	Buntrock Presidential Scholarship
2002	National Merit Scholar

PROFESSIONAL MEMBERSHIPS

2004-present	American Statistical Association
2009-2011	International Biometric Society
2010-2011	American Public Health Association
2009	Organization for Human Brain Mapping
2005-2006	Mathematical Association of America

PUBLICATIONS

REFEREED JOURNAL PUBLICATIONS

Wenzel J, Griffith K, Shang J, Thompson C, **Hedlin H**, Stewart K, DeWeese T, Mock V (2013). Impact of a Home-based Walking Intervention on Patients Undergoing Treatment for Solid Tumors. *The Oncologist* [In press].

Hayat M, **Hedlin H** (2012). Modern Statistical Modeling Approaches for Analyzing Repeated Measures Data. *Nursing Research* 61(3):147-237.

Kim M, Han H, **Hedlin H**, Kim J, Song H, Kim K, Hill M (2011). Tele-transmitted Monitoring of BP and Bilingual Nurse Counseling Sustained Improvements in BP Control over 12 Months in Hypertensive Korean Americans. *The Journal of Clinical Hypertension* 13(8):605-12.

Han H, Kim J, Lee J, **Hedlin H**, Song H, Song Y, Kim M (2011). Interventions that Increase Use of Pap Tests among Ethnic Minority Women: A Meta-analysis. *Psycho-Oncology* 20(4):341-351.

Hedlin H, Caffo B, Mahfoud Z, and Spear Bassett S (2010). Covariate-adjusted Nonparametric Analysis of Magnetic Resonance Images using Markov Chain Monte Carlo. *Statistics and Its Interface* 3(1):113-123.
* *ENAR Distinguished Student Paper Award winner*
* *June B. Culley Award winner*

Schwartz B, Caffo B, Stewart W, **Hedlin H**, James B, Yousem D, Davatzikos C (2010). Evaluation of Cumulative Lead Dose and Longitudinal Changes in Structural Magnetic Resonance Imaging in Former Organolead Workers. *Journal of Occupational and Environmental Medicine* 52(4):407-414.

Han HR, Lee JE, Kim J, **Hedlin HK**, Song H, Kim MT (2009). A Meta-analysis of Interventions to Promote Mammography among Ethnic Minority Women. *Nursing Research* 58(4):246-254.

OTHER PUBLICATIONS

Hedlin H (2013, January). Post Doc: A Unique Opportunity. *Amstat News*.

Vock D, **Hedlin H** (2010, December). Advice, Professional Development Tips for Graduate Students. *Amstat News*.

PAPERS IN PROGRESS

Hedlin H, Boatman D, Caffo B. Estimating Temporal Associations in Electrocorticographic (ECoG) Time Series with First Order Pruning.

Kohn S, Semon N, **Hedlin H**, Thompson C, Marum F, Jenkins S, Slemp C, Barnett D, Links J. Public Health-Specific Personal Disaster Preparedness Training: An Academic-Practice Collaboration.

PRESENTATIONS

Hedlin H (2013). ggplot2. Presentation to Pioneer Valley and Five College R Statistical Meetup.

Hedlin H (2013). What is Biostatistics? Invited Presentation, Math and Stat Club, Mount Holyoke College.

Hedlin H, Hochman D, Lavine M (2012). Estimation Issues in Modeling Stimulus Response from Optical Imaging Data. Contributed Paper, Joint Statistical Meetings.

Hedlin H (2012). Statistical Methods for Estimating Temporal Associations from Electrocorticographic (ECoG) Data. Invited Presentation, Joint UMass-UConn Colloquium, Department of Statistics, University of Connecticut.

Hedlin H (2011). Statistical Methods for Intersubject Analysis of Neuroscience Data. PhD Defense, JHSPH Department of Biostatistics.

Hedlin H (2011). Statistical Methods for Estimating Temporal Associations from Electrocorticographic (ECoG) Data. Invited Presentation, Department of Mathematics and Statistics, University of Massachusetts Amherst

Hedlin H (2011). Statistical Methods for Estimating Temporal Associations from Electrocorticographic (ECoG) Data. Invited Presentation, Department of Mathematics, Seattle University.

Hedlin H, Boatman D, Caffo B (2010). Estimating Temporal Associations in Electrocorticographic (ECoG) Time Series with First Order Pruning. Presentation to JHSPH Environmental Training Grant Working Group.

Hedlin H, Boatman D, Caffo B (2010). Estimating Temporal Associations in Electrocorticographic (ECoG) Time Series with First Order Pruning. Contributed Paper, Joint Statistical Meetings.

Hedlin H, Caffo B, Mahfoud Z, Spear Bassett S (2010). Covariate-adjusted Nonparametric Analysis of Magnetic Resonance Images using Markov Chain Monte Carlo. Contributed Paper, Eastern North American Meeting of the International Biometric Society.

Hedlin H (2010). Covariate-adjusted Nonparametric Analysis of Magnetic Resonance Images using Markov Chain Monte Carlo. Presentation to JHSPH Causal Inference Working Group.

Hedlin H (2010). Internships. Presentation to JHSPH Biostatistics Student Journal Club.

Hedlin H (2009). Functional and effective connectivity in intracranial EEG data. Presentation to JHSPH Environmental Biostatistics and Epidemiology Working Group.

Hedlin H (2009). Intracranial EEG Data and Methods. Presentation to the JHSPH Very Large Datasets Working Group.

Hedlin H (2009). Ethical Issues in Randomized Clinical Trials. Presentation to JHSPH Biostatistics Student Journal Club.

Hedlin H (2008). Nonparametric Analysis of Magnetic Resonance Images. Preliminary oral examination, JHSPH Department of Biostatistics.

Hedlin H, Reiners J, Schulte P, Trapp A, Tuerk M, Wood S (2006). Estimating Non-Point Source Load and Measuring Uncertainty. Presentation to Metropolitan Council-Environmental Services.

Bohme N, **Hedlin H**, Krohn S, Larson N, Resch E (2005). Vaccine Coverage: Diphtheria, Tetanus and Pertussis. Presentation to the World Health Organization Vaccines Group.

Hedlin H (2004). Statistics in Linguistics. Presentation at the St. Olaf College Summer Research Symposium.

POSTER PRESENTATIONS

Hedlin H, Hochman D, Haglund M, Lavine M (2012). Estimation Issues in Modeling Stimulus Response from Optical Imaging Data. Presented at the 14th Meeting of New Researchers in Statistics and Probability.

Hedlin H, Hochman D, Haglund M, Lavine M (2012). Estimation Issues in Modeling Stimulus Response from Optical Imaging Data. Presented at the Sixth Statistical Analysis of Neuronal Data (SAND6) Conference.

Hedlin H, Boatman D, Caffo B (2011). Estimating Temporal Associations in Electrocorticographic (ECoG) Time Series with First Order Pruning. Presented at Statistical Methods for Very Large Datasets Conference.

Hedlin H, Boatman D, Caffo B (2011). Estimating Temporal Associations in Electrocorticographic (ECoG) Time Series Using Multiple Subjects. Contributed poster, Eastern North American Meeting of the International Biometric Society.

Hedlin H, Caffo B, Mahfoud Z, and Bassett S (2010). Covariate-adjusted Nonparametric Analysis of Magnetic Resonance Images using Markov Chain Monte Carlo. Presented at Delta Omega Poster Competition.
* JHSPH Delta Omega Biostatistics Student Poster Competition winner

Hedlin H, Caffo B, Mahfoud Z, and Bassett S (2009). Covariate-adjusted Nonparametric Analysis of Magnetic Resonance Images using Markov Chain Monte Carlo. Presented at 15th Annual Meeting of the Organization for Human Brain Mapping.

Hedlin H, Reiners J, Schulte P, Trapp A, Tuerk M, Wood S (2006). Estimating Non-Point Source Load and Measuring Uncertainty. Presented at 7th Annual St. Olaf Science Symposium

Hedlin H, Wood S (2006). Statistical Analysis of Phonetic Vowel Shifts. Presented at 7th Annual St. Olaf Science Symposium.

Hedlin H, Wood S (2006). Statistical Analysis of Phonetic Vowel Shifts. Presented at 8th Annual Nebraska Conference for Undergraduate Women.

Eilertson K, **Hedlin H**, Holland M (2005). Broadening the Use of Statistical Analysis in Second Language Research. Presented at St. Olaf College Summer Research Symposium.

Bohme N, **Hedlin H** (2005). Broadening Statistical Analysis in Second Language Research. Presented at 6th Annual St. Olaf Science Symposium.

Hedlin H (2004). Statistics' Role in the Analysis of Linguistic Variation. Presented at St. Olaf College Summer Research Symposium.

SERVICE

2010-2011	**Member**, Committee on Student Pro Bono Statistics American Statistical Association
2008-2010	**Co-Coordinator**, TA Training Day JHSPH Biostatistics Department
2007-2010	**Student Host and Co-Planner**, Prospective Student Weekend JHSPH Biostatistics Department
2007-2009	**Panelist**, Grad School Night St. Olaf College Statistics Department
2007-2008	**Co-President**, Computing Club JHSPH Biostatistics Department
2007	**Volunteer**, Tri-School Day of Service Johns Hopkins University

COMPUTING SKILLS

Skilled with R, LaTeX, Stata, Matlab, and Microsoft Office

Familiar with SAS, PASW/SPSS, Minitab, WinBUGS, Sun Grid Engine cluster computing, and the UNIX environment