Alix I Gitelman

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A. EDUCATION AND EMPLOYMENT INFORMATION

Education

PhD	**Statistics**	1999	Carnegie Mellon University, Pittsburgh PA
MS	**Statistics**	1995	Carnegie Mellon University, Pittsburgh PA
MS	**Mathematics**	1994	Portland State University, Portland OR
BA	**Computer Science**	1987	Columbia University, New York NY

Employment

Sep 2015–present	**Professor** Department of Statistics Oregon State University
Jun 2005–Jun 2015	**Associate Professor** Department of Statistics Oregon State University
Sep 1999–May 2005	**Assistant Professor** Department of Statistics Oregon State University
Sep 1998–Jun 1999	**Spencer Foundation Dissertation Fellow** Carnegie Mellon University
Aug 1994-Aug 1998	**Teaching/Research Assistant** Department of Statistics Carnegie Mellon University
Sep 1992–Jun 1994	**Teaching Assistant** Department of Mathematical Sciences Portland State University
Mar 1988–Jun 1992	**Applications Programmer** ADP Portland OR
Jun 1987–Jun 1988	**Research Assistant** The Gartner Group Stamford CT

B. SCHOLARSHIP AND CREATIVE ACTIVITY

Refereed Publications

Sun, L. and Gitelman, A.I. (2016) Simultaneous tests for homogeneity of zero-inflated (beta) populations, *Communications in Statistics–Theory and Methods*, 45 (17) 5137–5153.

Boersma, K.S., Dee, L.E., Miller, S.J., Bogan, M.T., Lytle, D.A., and Gitelman, A.I. (2016) Linking multidimensional functional diversity to quantitative methods: A graphical hypothesis-evaluation framework, *Ecology*, 97(3), 583–593.

Romer, J.D., Gitelman, A.I., Clements, S., and Schreck, C.B. Designing a monitoring program to estimate estuarine survival of anadromous salmon smolts (2015) *PLos One* 10(7) http://dx.doi.org/10.1371/journal.pone.0132912.

Sun, L. and Gitelman, A.I. (2014) Two sample comparisons for non-normal data: A multivariate permutation test, *Communications in Statistics*, accepted.

Taylor, A.E., Vajrala, N., Giguere, A.T., Gitelman, A.I., Arp, D.J., Myrold, D.D., Sayaverdra-Soto, L., and Bottemley, P.J. (2013) Use of aliphatic n-alkynes to discriminate soil nitrification activities of ammonia-oxidizing thaumarchaea and bacteria, *Applied and Environmental Microbiology*, **79**, 21, 6544–6551.

Marley, K., Helfand, S.C., Edris, W.A., Mata, J.E., Gitelman, A.I., Medlock, J., and Seguin, B. (2013) The effects of taurolidine alone and in combination with doxorubicin or carboplatin in canine osteosarcoma in vitro, *BMC Veterinary Research* 9 (1), 15.

Wing, B.M., Ritchie, M.W., Boston, K., Cohen, W.B., Gitelman, A.I., and Olsen, M.J. (2012) Prediction of understory vegetation cover with airborne lidar in an interior ponderosa pine forest, *Remote Sensing of the Environment* 124, 730–741.

Irvine, K.M. and Gitelman, A.I. (2011) Graphical spatial models: a new view on interpreting spatial pattern, *Environmental and Ecological Statistics*, **18**, 447–469.

Fritsch, A., Gitelman, A. and Shellhammer, T.H. (2010) Using a change-point model to describe temporal bitter relationships among hop-derived compounds, *Food Quality and Preference*, **21**, 820–826.

Clemens, B.J., Clements, S.P., Karnowski, M.D., Jepsen, D.B., Gitelman, A.I., and Schreck, C.B. (2009) Effects of transportation and other factors on survival estimates of juvenile salmonids in the unimpounded lower Columbia River. *Transactions of the American Fisheries Society 138 (1)*, 169–188.

Dunham, S.M., Ganio, L.M, Gitelman, A.I., and Lachenbruch, B.L. (2008) Partitioning variation among multiple scales via a Bayesian hierarchical model for xylem properties in Douglas-fir, *Tree Physiology*, **28**, 1017–1024.

Simpson, J.M., Seguin, B. and Gitelman, A.I. (2008) Effects of topical application of taurolidine on second intention healing of experimentally induced wounds in rats, *American Journal of Veterinary Research*, 69 (9), 1210–1216.

Chelgren, N.D., Rosenberg, D.K., Heppell, S.S., and Gitelman, A.I. (2008) Individual variation affects departure rate from the natal pond in an ephemeral pond-breeding anuran, *Canadian Journal of Zoology* 886 (4) 260–267.

Refereed Publications (continued)

Irvine, K.M., Gitelman, A.I. and Hoeting, J.A. (2007) Spatial design and properties of spatial correlation: effects on covariance estimation, *Journal of Agricultural, Biological and Environmental Statistics*, **12** (4), 1–20.

Gitelman, A.I. and Herlihy, A. (2007) Isomorphic chain graphs for spatial dependence in ecological data *Journal of Environmental and Ecological Statistics*, **14**, 27–40.

Brooks, R.P., Patil, G.P., Fei, S., Gitelman, A.I. Myers, W.L., and Reavie, E.D. (2007) Next generation of ecological indicators of wetland condition, *EcoHealth* 4 (2) 176–178.

Dailey, M.C., Gitelman, A.I., Ramsey, F.L., and Starcevich, S. (2007) Habitat selection models to account for seasonal persistence in radio telemetry data *Journal of Environmental and Ecological Statistics*, **14**, 55–68.

Chelgren, N.D., Rosenberg, D.K., Heppell, S.S., and Gitelman, A.I. (2006) Carry-over aquatic effects on survival of metamorphic frogs during pond emigration *Ecological Applications*, Vol. 16, No. 1, 250–261.

Gitelman, A.I. (2005) Estimating causal effects from multilevel group-allocation data, *Journal of Educational and Behavioral Statistics*, **30**, 397–412.

Van Tuyl, S., Law, B., Turner, D., and Gitelman, A.I. (2005) Variability in net primary production and biomass across Oregon forests—An assessment integrating data from forest inventories, intensive sites, and remote sensing *Forest Ecology and Management*, **209** (3), 273–291.

Ball, D.A., Frost, S.M. and Gitelman, A.I. (2004) Predicting timing of downy brome *Bromus tectorum* seed production using growing degree-days. *Weed Science* **52** 518–524.

McCune, B., Berryman, S.D., Cissel, J.H., and Gitelman, A.I. (2003) Use of a scatterplot smoother to forecast occurrence of epiphytic lichens under alternative forest management plans. *Ecological Applications* **13**(4) 1110–1123.

Tableman, M. and Gitelman, A.I. (2002) The scaled α-winsorized estimate of exponential scale for censored data: an analysis based on two influence functions,*Statistics and Probability Letters* **59** 2, 169–181.

Monleon, V.J., Gitelman, A.I. and Gray, A.N. (2002) Multi-scale relationships between coarse woody debris and presence/absence of western hemlock in the Oregon Coast Range. Gatsonis, C., Kass, R.E., Carriquiry, A., Gelman, A., Higdon, D., Pauler, D.K. & Verdinelli, I. eds. *Case Studies in Bayesian Statistics, Vol. VI.* Springer-Verlag: New York. 311–318.

Gitelman, A.I., Risbey, J., Kass, R.E., and Rosen, R.D. (1999) Sensitivity of a meridional temperature gradient index to latitudinal domain. *Journal of Geophysical Research*, Vol. 104, No. D14, 16,709–16,717.

Gitelman, A.I., Risbey, J., Kass, R.E. and Rosen, R.D. (1997) Trends in the surface meridional temperature gradient. *Geophysical Research Letters,* Vol. 24 No. 10, 1243–1246.

Non-refereed Publications

Schafer, D.W. and Gitelman, A.I. (2010) *Critical Evaluation of Statistical Arguments*. On-line textbook materials for ST201 and ST209 at Oregon State University (not currently being used).

English, M., Sayde, C., Gitelman, A.I., and Khoury, L. (2008) A feedback system to optimize crop water use estimates in irrigation scheduling. IN: World Environmental & Water Resources Congress 2008 , May 13-16, 2008, Honolulu, Hawaii.

Sayde, C., Khoury, L., Gitelman, A., and English, M. (2008) Optimizing estimates of soil moisture for irrigation scheduling. ASABE paper number: 084699. ASABE, St. Joseph, MI.

Dykeman, C., Wood, C., Ingram, M., Gitelman, A., Mandsager, N. Chen, M-Y., and Herr, E.L. (2003) Career development interventions and academic self-efficacy and motivation: a pilot study. National Research Center for Career and Technical Education, University of Minnesota.

Gitelman, A.I. (2000), Experimental Design: Compliance. *International Encyclopedia of the Social and Behavioral Sciences*.

Junker, B.J. and Gitelman A.I. (2000) Discussion of 'The Bayesian Analysis of the New York School Choice Scholarship Program: A Randomized Experiment with Non-Compliance and Missing Data,' Barnard, et al. in *Case Studies in Bayesian Statistics, Vol. V.*, Carlin, B., Carriquiry, A.L., Gatsonis, G., Gelman, A., Kass, R.E., Verdinelli, I., and West, M. (eds). Springer-Verlag: New York.

Professional Meetings—Presentations

Model comparison for ecosystem disturbance pathways, invited talk at Graybill/ENVR Conference 2014, Fort Collins.

History of the Section on Statistics and the Environment, invited poster at the Joint Statistical Meetings (JSM) 2014, Boston.

Statistical consulting and the tenure track, invited panel discussion participant at JSM 2014, Boston.

Spatial prediction using multivariate data structures, invited talk in topic contributed session at JSM 2013, Montreal.

Managing your environmetrics career, invited panel discussion participant at The International Environmetrics Society meeting 2013, Anchorage.

Multivariate Spatial models with discrete and continuous components, presented at SuSTain, Structure and Uncertainty Conference 2012 Bristol, UK.

Interpreting spatial pattern with graphical models, invited talk at Western North American Region of the Biometrics Society Meeting (WNAR) 2010, Seattle.

Estimating Soil Moisture Depletion from Multiple Data Sources, invited talk for the Montana Chapter of the American Statistical Association (ASA), 2008, Butte.

A Second Course in Statistics at Oregon State University, presented at JSM 2006, Seattle.

Professional Meetings—Presentations (continued)

Consulting in (and around) the Bayesian Paradigm, invited round table discussion at JSM 2006, Seattle.

Bayesian Network Models to Account for Correlation Across Scales, invited talk at Ecological Society of America/The International Association for Ecology meeting 2005, Montreal.

Connecting Correlated GIS Predictors in a Bayes Network Model, contributed talk (and session organizer), WNAR 2005, Fairbanks.

Chain Graph Models for Spatial Dependence in Ecological Data, talk at the joint STARMAP/ DAMARS meeting 2004, Fort Collins.

Isomorphic Chain Graphs for Modeling Spatial Dependence in Ecological Data, invited talk at the Graybill Conference 2004, Fort Collins.

Causal Modeling for Aquatic Resources, talk at the joint STARMAP/DAMARS meeting 2003, Corvallis.

Spatial Dependence in Bayesian Belief Networks, contributed talk at JSM 2003, San Francisco.

A Bayesian Analysis of Data with Hierarchical Changepoint, contributed talk at JSM 2002, New York.

Causal Modeling of Macro-Invertebrate Data, invited talk at Oregon Chapter of the ASA meeting 2002, Corvallis.

Professional Meetings—Participation

The 24th Annual International Environmetrics Society (TIES) Conference 2014, Guangzhou PRC: invited to organize a session.

Graybill/ENVR (The American Statistical Association's Section on Statistics and the Environment) Workshop 2014, Fort Collins: Organizing committee co-chair.

Graybill/ENVR Workshop 2014, Fort Collins: PhD student Christopher Wolf poster presentation, *Estimation of food web interaction strengths from observational data: A Bayesian approach.*

JSM 2014, Boston: ENVR activities (Chair).

The 23rd Annual TIES Conference 2014, Anchorage: Scientific committee.

JSM 2013, Montreal: ENVR activities (Chair-Elect).

JSM 2013, Montreal: PhD student Luna Sun contributed talk, *Two-sample comparisons for non-Normal data.*

JSM 2013, Montreal: PhD student Xuan Che contributed talk, *Spatial graphical models for high dimensional lattice data.*

Workshop on causal inference and graphical models 2012, Gainesville: PhD student Xuan Che contributed poster, *Spatial graphical models with discrete and continuous components.*

JSM 2011, Miami Beach: ENVR activities (Council of Sections Representative).

Professional Meetings—Participation (continued)

JSM 2010, Vancouver: ENVR activities (Council of Sections Representative).

JSM 2010, Vancouver: PhD Student Daniel Yang contributed poster: *Improving the bias and variance of the classic propensity score sub-classification adjustment estimator with a simple alternative weight.*

Western North American Region of the International Biometric Society/Institute of Mathematical Statistics (WNAR/IMS) 2010, Seattle: invited session, *Spatial Dependence in Ecological Data.*

JSM 2009, Washington, D.C.: ENVR activities (Council of Sections Representative).

The 2nd TIES North American Regional Meeting 2009, Corvallis: organizing committee.

The 1st TIES North American Regional Meeting 2007, Seattle: PhD student Kathryn Irvine contributed talk: *Connections between Graphical Models and Models for Multivariate Spatial Data.*

JSM 2006, Seattle: PhD student Kathryn Irvine contributed talk, *Strength of Spatial Correlation and Spatial Designs: Effects on Covariance Estimation.*

WNAR/IMS 2005, Fairbanks: PhD student Kathryn Georgitis (now Irvine) invited talk: *Estimation and Model Selection for Geostatistical Models.*

Statistics for Aquatic Resources: Monitoring, Modeling, and Management Conference 2005, Corvallis: PhD student Kathryn Georgitis (now Irvine)contributed talk, *Connecting Correlated GIS Predictors using Graphical Models.*

JSM 2004, Toronto: former MS student Megan Dailey (now Higgs) contributed talk, *Habitat selection models accounting for seasonal persistence in animals tracked using radio-telemetry.*

Graybill Conference 2004, Fort Collins: former MS student Megan Dailey (now Higgs) contributed poster: *Habitat selection models accounting for seasonal persistence in animals tracked using radio-telemetry.*

TIES/Spatial Accuracy Conference 2004, Portland, ME: PhD student Kathryn Georgitis (now Irvine) contributed poster: *Multi-scale analysis: approaches and comparisons.*

University Seminars, Other Symposia

On Monitoring Estuarine Smolt Survival, invited talk at Linfield College Mathematics Department Colloquium, McMinnville OR, 2012.

On Monitoring Estuarine Smolt Survival, invited talk at Willamette University Mathematics Department Colloquium, Salem OR, 2012.

On Monitoring Estuarine Smolt Survival, invited talk at Oregon State University Applied Mathematics and Computation Seminar, 2012.

On Monitoring Estuarine Smolt Survival, invited talk at the Willamette Valley REU-RET Consortium for Mathematics Research at Lewis & Clark College, Portland OR, 2012.

Fostering Productive Collaborations, invited presentation at Advancing toward Professorship in Biology, Ecology and Earth Systems Sciences Conference, Corvallis, 2012.

University Seminars, Other Symposia (continued)

A Bayesian Method for Modeling Soil Moisture Depletion, OSU Statistics Department Research Seminar, 2008.

Bayesian Modelling for Non-Statisticians: Some Pedagogical Challenges, Oregon Chapter of the American Statistical Association, Corvallis, 2008.

Bayesian Modeling for Non-Statisticians: Some Pedagogical Challenges, invited talk at Montana State Univ., Dept of Mathematical Sciences, Bozeman, 2008.

Applications of Bayesian Statistics to Ecological Questions, OSU Department of Botany and Plant Pathology Research Seminar, 2008.

Applications of Bayesian Statistics to Ecological Questions, OSU Ecosystem Informatics IGERT Colloquium, 2006.

Spatial Dependence in Bayesian Belief Networks OSU Statistics Department Research Seminar, 2003.

Bayesian Belief Networks: Some Statistical Issues, OSU Department of Computer Science Research seminar, 2002.

Causal Modeling of Macro-Invertebrate Data Colorado State University Statistics Department Research Seminar, Fort Collins, 2002.

Causal Modeling in Observational Data: Where's the Beef? OSU Statistics Department Research Seminar 2001.

Causal Modeling in Observational Data: Where's the Beef? EPA Lab Seminar, Corvallis, 2001.

Defining a Research Identity, presentation for The Spencer Foundation Dissertation Fellows Spring meeting, Seattle, 2001.

On Entering Academia presentation for The Spencer Foundation Dissertation Fellows Spring meeting, New Orleans, 2000.

Evolution of a Change-Point Model Solution, Reed College, Department of Mathematics Colloquium, Portland OR, 2000.

Within-group Dependence and Hierarchical Models, OSU Department of Math and Science Education Seminar, 2000.

Within-group Dependence and Hierarchical Models, Portland State University Department of Mathematical Sciences Research Seminar, 1999.

Grant and Contract Support

· Current

National Science Foundation Research Traineeship Program–Data-Enabled Science and Engineering, 2015, "Risk and Uncertainty Quantification in Marine Science" Role: Co-Principal Investigator. Award amount: $2,999,395.

North Pacific Research Board, 2015 "Size-at-age of Pacific cod (Gadus macrocephalus) in the Eastern Bering Sea." Role: Co-Principal Investigator. Award amount: $298,708.

Grant and Contract Support (continued)

· Completed

Environmental Health Sciences Center Pilot Project Grant, 2011, "Linking PAH Exposure to Health Outcomes Using a Unified Bayesian Modeling Approach." Role: Co-Principal Investigator (with John Molitor, Department of Public Health). Award amount: $25,000.

Sub-contract with UC Davis for work on a project with researchers in Water Resources Engineering, "An advisory service for optimum irrigation in California," 2008–2010. Role: Co-Principal Investigator (P.I. Marshall English). Award amount: $24,638.

Research Program on Statistical Survey Design and Analysis for Aquatic Resources, Environmental Protection Agency STAR Grant, 2001–2005 "Designs and Models for Aquatic Resource Surveys." Role: Co-investigator (P.I. Don Stevens). Total award: $2,989,884.

Research Program on Statistical Survey Design and Analysis for Aquatic Resources, Environmental Protection Agency STAR Grant, 2001–2005. Sub-award between Colorado State University and Oregon State University, "Modeling of Statistical Surveys." Role: Principal Investigator for OSU sub-award (P.I. for full grant: N. Scott Urquhart). Total subcontract amount: $459,535 (total award: $2,998,331).

Statistical Consulting Activities

· Thirty to thirty-five of my position description is supported for Statistical Consulting and Collaboration for scientists in the College of Agricultural science. This includes:

  – Statistical consulting for over 100 researchers at Oregon State University, mostly in the College of Agricultural Sciences.

  – Since 2014: oversight of the Statistical Consulting Practicum for graduate students in the Department of Statistics.

  – Since 2014: coordination of Statistical Consulting services for faculty with the College of Agricultural Sciences.

· Consulting with eight corporate clients outside of Oregon State

C. TEACHING, ADVISING, AND OTHER ASSIGNMENTS

Credit Courses (all course 3 credits unless otherwise noted)

· MTH111* Introduction to College Algebra (4)
· MTH112* Introduction to Trigonometry (4)
· MTH243* Introduction to Statistics (4)
· MTH244* Introduction to Statistic II (4)
· ST201** Statistical Reasoning

Credit Courses (continued)

- ST201 Introduction to Statistics
- ST411/511 Methods of Data Analysis (4)
- ST412/512 Methods of Data Analysis II (4)
- ST413/513 Methods of Data Analysis III (4)
- ST509 Statistical Consulting Practicum (2)
- ST551 Statistical Methods (4)
- ST552 Statistical Methods II (4)
- ST555 Advanced Experimental Design
- ST557 Applied Multivariate Analysis
- ST565 Time Series and Spatial Statistics
- ST559 Bayesian Statistics
- ST599 Special Topics: Environmental and Spatial Statistics
- ST599^{+} Statistical Computing and Big Data
- ST623 Generalized Regression Models

* At Portland State University (quarter system; enrollments approximate)
* At Carnegie Mellon University (semester system; enrollment approximate)
$^{+}$Co-taught with Charlotte Wickham

Reading and conference courses

Course	Term	Enrollment
Statistical Computing*	Winter 2006	3
Spatial Statistics	Spring 2013	1

*with Lisa Madsen

Non-Credit Courses and Workshops

Title	Audience	Year
Bayesian Methods	Fisheries/Wildlife Graduate Students	2010
Statistics with R*	College of Agricultural Sciences	2014

*with Charlotte Wickham

Two-day workshop on Introductory Applied Bayesian Statistics at the Second and Third Annual Graduate Workshops on Environmental Data Analytics, hosted by the National Center for Atmospheric Research, Boulder CO, July 2015, 2016

Three-day workshop on Bayesian Statistics at National Center for Atmospheric Research, Boulder CO, July 2016.

Curriculum Development

- Developed/taught new course in Bayesian Statistics (now ST559), 2001.
- Developed materials for use in Bayesian Statistics, 2005 (and on-going).
- Updated/taught Time Series and Spatial Statistics using R and covering more applied methods, 2003.
- Developed/taught topics course (ST599) in Environmental (spatial) Statistics, 2011.
- Developed materials for new Data Analytics program (ST516, ST517, ST518).

Graduate Students

- **Department of Statistics PhD Students Supervised**

Student	Graduation	Current Employment
Kathryn Irvine	2008	USGS, Bozeman MT
Yan Fang*	2011	Shanghai Int'l Business and Economics Univ
Xuan Che	2012	UN, New York (currently, Ethiopia).
Danny Yang**	2012	BLS, Washington D.C.
Luna Sun	2014	Eli Lilley, Indianapolis IN
Chris Wolf	2017	
Chris Comiskey^{+}	2017	

*Co-advised with Lisa Madsen; **Co-advised with Virginia Lesser; $^{+}$Co-advising with Charlotte Wickham

- **Department of Statistics MS Committees Chaired** (Non-thesis MS degrees require a 3 credit research project in lieu of thesis.)

Student	Year	Student	Year
Joseph Larson	2002	Jinna Liu	2008
Megan Dailey	2003	Kate Lovinger	2008
John Schilp	2003	Xiaoyu Chai	2009
Justin Smith	2003	Allison Furey	2009
Stephen Jensen	2004	Patrick McCann	2009
Chelsea McElwain-Carter	2004	James Power*	2011
Pei-Ling Wu	2004	Meiden Bu	2012
Charlie Gerringer	2005	Branwyn Jaeger	2012
Susan Hornsby	2005	Matthew Nahorniak	2012
Brent Balgooyen	2006	Malcolm Itter	2013
Michael Perozzi	2006	Lin Qin	2013
Douglas Larmour	2007	Gina Shellhammer	2013
Hee Bun Lee*	2007	Christopher Wolf	2013
Emily Thielman	2007	Hai Yang	2013
Xiaofeng Wang	2007	Christopher Comiskey	2014
Yang Xu*	2007	Shubhomoy Das	2014

*Did not earn degree

Graduate Students (continued)

- **Statistics PhD committee member**: 8
- **Non-Statistics PhD committee member**: 32
- **Non-Statistics MS committee member**: 25

Team and Collaborative Efforts

- Co-developed and co-taught (with Charlotte Wickham) a special topics course, ST599 Statistical Computing and Big Data, Spring 2014
- On-going development of a Masters program in Data Analytics, in collaboration with other faculty in Statistics (Yanming Di, Robert Smythe, Charlotte Wickham) and faculty in Electrical Engineering and Computer Science (Terri Fiez, Weng-Keen Wong). Efforts to date involve preparing Category I and II proposals and course development.

D. SERVICE

University Service

- Baccalaureate Core Committee, 2016–present
- Faculty Senate Executive Committee, 2014–2016
- College of Science Associate Dean Search, 2013
- College of Science Awards Committee, 2012–present
- University Curriculum Council (included Math department review), 2012–2013
- Search Advocate for the Director of the Difference, Power and Discrimination Search 2012–2013
- Faculty Senate, present (2017-2019), 2012–13, 2005-07
- Search Advocate for Geospatial Intelligence and Planning Leadership Position 2012
- Faculty Marshall at Graduation, 2012
- Office of Federal Contract Compliance Programs audit for the Office of Affirmative Action, 2009–2010
- College of Science Associate Dean Search Committee, 2008
- Statistics Department Search Committee Chair, 2008
- Committee to Evaluate Student-Athlete Academic Support Services, 2008
- College of Science Committee on Diversity, 2006 (Chair)
- Department of Food Science and Technology Assistant Professor Search, 2006
- Director of Interdisciplinary Programs and Director MAIS Search Committees, 2006
- Graduate Council (included graduate program reviews for Fisheries & Wildlife and Industrial and Manufacturing Engineering), 2005-07

University Service (continued)

- Affirmative Action Forum 2003
- University Issues Group: Undergraduate Admissions, 2000-2002
- Science Connections, Oregon State University, 1999

Department Service

- Department mentoring activities (ADVANCE fellowship) 2016–2017
- Methods Exam Committee, 2013–present, 2000–2006
- Distance Education Committee, 2012–present
- Director of Graduate Studies, 2005–2012 (except for Jan–Jun 2007 while on sabbatical)
- Graduate Committee, 2005–2013, 2017–
- Promotion and Tenure Committee, 2005–present
- Faculty Search Committee Chair, 2010/11, 2008/09
- University Statistics Colloquium Series Chair 2012–2013
- Faculty Research Assistant Search Committee, 2008
- Faculty Search Committee, 2014, 2010, 2005, 2003
- Computer Committee, 1999–2004

Professional Service

- Guest subject matter editor for *Ecological Applications*, 2015
- Co-Chair of Organizing Committee for the 2014 Graybill/ENVR Conference, Fort Collins
- American Statistical Association (ASA), Section on Statistics and the Environment (ENVR) Chair, 2014
- Review for *Ecological Applications*, 2014
- ASA ENVR Chair-elect, 2013
- Review panel for DFG (German Science Foundation), Biodiversity Exploratories Program; Potsdam, 2013
- Book proposal review for CRC Press, 2013
- Review for *Ecology*, 2013
- Review for *Global Change Biology*, 2013
- Review for *Environmental Biology of Fishes*, 2013
- Book proposal review for CRC Press, 2011
- Review for *Journal of Environmental and Ecological Statistics*, 2009

Professional Service (continued)

- ASA ENVR Council of Sections Representative, 2009-11
- Guest Associate Editor for the *Canadian Journal of Forest Research*, special forum on Bayesian belief networks, 2006
- Review for *Journal of Agricultural, Biological and Environmental Statistics*, 2005
- Review for Duxbury Press, MBA data analysis course prospectus 2005
- President, Oregon Chapter of the American Statistical Association, 2004–2005
- Special Awards Judge, International Science and Engineering Fair, Portland OR, May 2004
- Special Awards Judge, Northwest Science Expo, Portland OR, April 2004
- Vice President, Oregon Chapter of the American Statistical Association, 2003–2004
- Review for *Journal of Statistics Education*, August 2003
- Secretary/Treasurer, Oregon Chapter of the American Statistical Assn, 2002–2003
- Judge, Northwest Science Expo, Portland OR, March 2002

E. AWARDS

- NSF ADVANCE faculty fellowship, 2016
- D. Curtis Mumford Faculty Service Award, 2015
- College of Science Women in Science Award, 2012
- Oregon State Statistics Students Organization (OSSSO) Award for significant contribution to the educational experience of statistics students, 2010
- College of Science Horne Award for sustained excellence in teaching science, 2008
- Finalist for the College of Science Lloyd Carter Award for excellence in graduate teaching, 2005
- OSSSO Award, 2004
- OSSSO Award, 2003
- Spencer Foundation Dissertation Fellow, 1998–1999
- Gertrude Cox Scholarship Honorable Mention, The American Statistical Association's Committee on Women in Statistics and the Caucus for Women in Statistics, 1995