

Joshua Hewitt

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Department of Statistics
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Education

Since 2013	Ph.D. candidate <i>Advisor: Jennifer A. Hoeting</i>	Statistics, Colorado State University
2009	M.S.E.	Applied Mathematics & Statistics, The Johns Hopkins University
2009	B.S. with general honors	Applied Mathematics & Statistics, The Johns Hopkins University

Experience

2009–2013 Statistician, Booz Allen Hamilton

Publications

- 2018
 1. Hewitt, J., Fix, M. J., Hoeting, J. A., and Cooley, D. S. (2018). Improved return level estimation via a weighted likelihood latent spatial extremes model. (*In preparation*).
 2. Hewitt, J., Hoeting, J. A., Done, J. M., and Towler, E. (2018). Remote effects spatial process models for modeling teleconnections. *Environmetrics*.
 3. Schmeer, S. R., Kampf, S. K., MacDonald, L. H., Hewitt, J., and Wilson, C. (2018). Empirical models of annual post-fire erosion on mulched and unmulched hillslopes. *Catena*, **163**, 276–287.
- 2009
 4. Vidal, C., Hewitt, J., Davis, S., Younes, L., Jain, S., and Jedynak, B. (2009). Template registration with missing parts: Application to the segmentation of M. tuberculosis infected lungs. In *Biomedical Imaging: From Nano to Macro, 2009. ISBI'09. IEEE International Symposium on* (pp. 718-721). IEEE.

Workshops

- 2015 Hewitt, J., Scharf, H., and Fix, M. (2015). Tutorial on Parallel Programming in R. *American Statistical Association Conference on Statistical Practice*, New Orleans, Louisiana. February 2015.

Software

- 2018 Hewitt, J. (2018). “**telefit**: Estimation and Prediction for Remote Effects Spatial Process Models”. *R package*
<http://CRAN.R-project.org/package=telefit>

Presentations

Invited talks

- 2018 Improved return level estimation via a weighted likelihood latent spatial extremes model. *Stochastic Weather Generators Conference*, Boulder, Colorado. October, 2018.

Contributed talks

- 2018 1. Improved return level estimation via a weighted likelihood latent spatial extremes model. *Joint Statistical Meetings*, Vancouver, British Columbia. August 2018.
- 2017 2. Remote effects spatial process models for teleconnection. *Joint Statistical Meetings*, Baltimore, Maryland. August 2017.

Departmental seminars

- 2018 1. National Center for Atmospheric Research, Boulder, Colorado.
- 2017 2. University of Chicago, Chicago, Illinois.
- 2016 3. Colorado State University, Fort Collins, Colorado.
- 4. National Center for Atmospheric Research, Boulder, Colorado.
- 2015 5. Colorado State University, Fort Collins, Colorado.
- 2014 6. Colorado State University, Fort Collins, Colorado.

Posters

- 2018 1. Improved return level estimation via a weighted likelihood latent spatial extremes model. *Institute for Mathematics and its Applications Workshop on Frontiers in Forecasting*, Minneapolis, Minnesota. February 2018.
- 2017 2. Remote effects spatial process models for modeling teleconnections. *Challenges in the Statistical Modeling of Stochastic Processes for the Natural Sciences*, Banff, Alberta. June 2017.
- 3. A geostatistical model for teleconnections. *Poster session for admitted CSU statistics graduate students*, Fort Collins, Colorado. March 2017.
- 2016 4. A spatial-statistical approach to modeling teleconnections. *The 13th International Meeting on Statistical Climatology*, Canmore, Alberta. June 2016.
- 5. Modeling climate teleconnections. *ENVR/EnviBayes Workshop on Bayesian Environmetrics*, Columbus, Ohio. March 2016.
- 2015 6. Morphological and statistical detection of archaeological features in LIDAR imagery. *Poster session for admitted CSU statistics graduate students*, Fort Collins, Colorado. March 2015.

Teaching

Courses taught at Colorado State University

- 2017 **Statistics for Behavioral Sciences II (STAT 312)**
Instructor; Spring/Fall 2017
- 2015–2016 **Introduction to Biostatistics (STAT 307)**
Instructor; Spring 2015/2016
- 2014 **Introduction to Statistics (STAT 301)**
Instructor; Fall 2014
- 2013–2014 **Introduction to Statistics (STAT 201)**
Teaching assistant; Fall 2013, Spring 2014

Honors

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| 2018 | 1. Sustainability Leadership Fellow; School of Global Environmental Sustainability, Colorado State University. |
| 2017 | 2. Student paper award; Section on Statistics and the Environment, American Statistical Association. |
| | 3. Education and Service award; Department of Statistics, Colorado State University. |
| | 4. Poster award; Department of Statistics, Colorado State University. |
| 2014 | 5. Summer fellow; Center for Interdisciplinary Mathematics and Statistics, Colorado State University. |
| 2013 | 6. University graduate fellowship; Colorado State University. |

Travel grants

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| 2016–2017 | STATMOS travel grants
Funding from the NSF-supported Research Network for Statistical Methods for Atmospheric & Oceanic Sciences (STATMOS) to present research at related workshops and conferences. |
| 2016 | Rossbypalooza
Funding from the University of Chicago to attend a graduate student workshop on climate and statistics. |

Service

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| 2017–2018 | Stat Alliance at Colorado State University
Co-Founder of American Statistical Association Student chapter at Colorado State University. |
| | STATMOS liaison at Colorado State University
Liaison to CSU graduate students involved in the NSF-supported STATMOS research network. |
| 2016–2017 | Graduate teaching assistant mentor
Mentor to junior graduate student instructors at Colorado State University. |
| 2015–2016 | Student-organized activities and research seminars coordinator
Co-coordinator of student-organized seminar series at Colorado State University. |