

# Joshua Hewitt

PhD candidate  
Department of Statistics  
Colorado State University  
Fort Collins, CO 80523-1877

joshua.hewitt@colostate.edu  
<https://jmhewitt.github.io/>

## Education

Since 2013	Ph.D. candidate <i>Advisor: Jennifer A. Hoeting</i>	Statistics, Colorado State University
2018	Graduate teaching certificate	Colorado State University
2009	M.S.E.	Applied Mathematics & Statistics, Johns Hopkins University
2009	B.S. with general honors	Applied Mathematics & Statistics, Johns Hopkins University

## Experience

2019–present	Duke University, Postdoctoral Associate
2009–2013	Booz Allen Hamilton, Statistician

## Publications

- 2019     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. *Accepted for publication in the Journal of Agricultural, Biological, and Environmental Statistics (JABES)*.
- 2018     2. Hewitt, J., Hoeting, J. A., Done, J. M., and Towler, E. (2018). Remote effects spatial process models for modeling teleconnections. *Environmetrics*, e2523, <https://doi.org/10.1002/env.2523>.
- 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. Hewitt, J., Fix, M. J., Hoeting, J. A., and Cooley, D. S. Improved return level estimation via a weighted likelihood latent spatial extremes model. *ENVR Workshop: Research, Practice and Policy*, Asheville, North Carolina. October 2018.
- 2. Hewitt, J., Fix, M. J., Hoeting, J. A., and Cooley, D. S. 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 3. Bowser, G., Le Mat, A., Hewitt, J., and Wood, T. GoPollinators: Detecting pollination interactions with GoPro and Field cams. *Ecological Society of America Annual Meeting*, Portland, Oregon. August 2017.
- 4. Hewitt, J., Hoeting, J. A., Done, J. M., and Towler, E. Remote effects spatial process models for modeling teleconnections. *Challenges in the Statistical Modeling of Stochastic Processes for the Natural Sciences*, Banff, Alberta. June 2017.
- 5. Hewitt, J., Hoeting, J. A., Done, J. M., and Towler, E. A geostatistical model for teleconnections. *Poster session for admitted CSU statistics graduate students*, Fort Collins, Colorado. March 2017.
- 2016 6. Hewitt, J., Hoeting, J. A., Done, J. M., and Towler, E. A spatial-statistical approach to modeling teleconnections. *The 13<sup>th</sup> International Meeting on Statistical Climatology*, Canmore, Alberta. June 2016.
- 7. Hewitt, J., Hoeting, J. A., and Done, J. M. Modeling climate teleconnections. *ENVR/EnviBayes Workshop on Bayesian Environmetrics*, Columbus, Ohio. March 2016.
- 2015 8. Hewitt, J., Wang, H., Leisz, S., and Fisher, C. 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	<b>Statistics for Behavioral Sciences II (STAT 312)</b> Instructor; Spring 2017, Fall 2017
2015–2016	<b>Introduction to Biostatistics (STAT 307)</b> Instructor; Spring 2015, Spring 2016
2014	<b>Introduction to Statistics (STAT 301)</b> Instructor; Fall 2014
2013–2014	<b>Introduction to Statistics (STAT 201)</b> Teaching assistant; Fall 2013, Spring 2014

## Honors

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

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

## Service

2018	<b>Session Chair</b> <ul style="list-style-type: none"><li>• Stochastic Weather Generators Conference – Dynamics and Forecasting</li><li>• Joint Statistical Meetings – Spatial and Spatiotemporal Modeling in Climate and Meteorology</li></ul>
2017–2018	<b>Stat Alliance at Colorado State University</b> Co-Founder of American Statistical Association Student chapter at Colorado State University.  <b>STATMOS liaison at Colorado State University</b> Liaison to CSU graduate students involved in the NSF-supported STATMOS research network.
2016–2017	<b>Graduate teaching assistant mentor</b> Mentor to junior graduate student instructors at Colorado State University.
2015–2016	<b>Student-organized activities and research seminars coordinator</b> Co-coordinator of student-organized seminar series at Colorado State University.