

## Soyoung Jeon

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CONTACT INFORMATION	1 Cyclotron Road, Mail Stop: 84-0171 Berkeley, CA 94720	<i>Cell:</i> (919) 923-7424 <i>E-mail:</i> SoyoungJeon@lbl.gov
RESEARCH INTERESTS	Spatio-temporal modeling of extremes, time series analysis, applications to weather and climate change, CMIP5 model evaluation	
EDUCATION	<b>University of North Carolina at Chapel Hill</b>	
	Ph.D. in Statistics and Operations Research, May 2012	
	<ul style="list-style-type: none"> <li>• Thesis Title: <i>Max-stable Processes for Threshold Exceedances in Spatial Extremes</i></li> <li>• Advisor: Professor Richard L. Smith</li> </ul>	
	<b>Seoul National University, South Korea</b>	
	M.S. in Statistics, Feb. 2007	
	<ul style="list-style-type: none"> <li>• Thesis Title: <i>A Study on the Performance of Bandwidth Selectors in Local Polynomial Regression</i></li> <li>• Advisor: Professor Woochul Kim</li> </ul>	
	B.S. in Statistics, Feb. 2005	
RESEARCH EXPERIENCE	<b>Lawrence Berkeley National Laboratory, Berkeley, CA</b>	
	<i>Postdoctoral Researcher</i>	<b>September 2012 to present</b>
	Involved with the Robust Regional Climate Modeling Project supported by U.S. DOE	
	<ul style="list-style-type: none"> <li>• Investigating abrupt and extreme climate change</li> <li>• Analyzing precipitation extremes and hindcasts for extremes</li> <li>• Characterizing scale behavior for extremes projections</li> </ul>	
ACADEMIC EXPERIENCE	<b>University of North Carolina at Chapel Hill, NC</b>	
	<i>Instructor</i>	<b>Summer 2011 to Fall 2011 Spring 2010 to Summer 2010</b>
	<ul style="list-style-type: none"> <li>• Taught <i>Basic Statistics</i> and <i>Introduction to Statistics</i></li> <li>• Instructed students on the elements of statistics, data analysis and inferences</li> <li>• Facilitated discussions, presented lectures and clarified concepts</li> <li>• Designed and evaluated assignments and exams</li> </ul>	
	<i>Teaching Assistant</i>	<b>Fall 2010 to Spring 2012</b>
	<ul style="list-style-type: none"> <li>• T.A. for graduate courses: <i>Probability, Statistical Theory</i> and <i>Applied Statistics</i></li> <li>• Offered office hours; one hour per week</li> </ul>	

- Evaluated assignments and designed solutions of assignments

*Teaching Assistant*

**Fall 2007 to Spring 2009**

- T.A. for undergraduate courses: *Basic Statistics* and *Introduction to Statistics*
- Offered the open tutorial session and trained Excel techniques of data analysis
- Evaluated daily assignments and hold office hours

**Statistical and Applied Mathematical Sciences Institute (SAMSI)**, RTP, NC  
Program on Space-time Analysis for Environmental Mapping, Epidemiology and Climate Change

*Graduate Fellow*

**Fall 2009 to Spring 2010**

- Assisted undergraduates in R lab session of Undergraduate Modeling Workshop, May 17 - 21, 2010
- Presented a Talk in Spatial Extremes working group session of Climate Change Workshop, February 17-19, 2010
- Helped undergraduates in Matlab lab session of Undergraduate Workshop, October 30 - 31, 2009
- Joined a Spatial Extremes working group, had a working group meeting once a week and gave a presentation in the threshold methods subgroup
- Attended the opening workshop, September 13-16, 2009

**Seoul National University**, Seoul, South Korea

*Instructor*

**Spring 2006 to Fall 2006**

- Taught courses: *SPSS lab course* and *SAS lab course*
- Prepared and led lectures for undergraduate students
- Trained students in SPSS/SAS techniques of data analysis
- Designed and evaluated assignments and exams

#### PUBLICATIONS

**S. Jeon** and W.D. Collins, Change of U.S. Western Regional Climate by Exploring Spatial Dependence of Extremes across CMIP5, In preparation

**S. Jeon** and R.L. Smith, Dependence Structure of Spatial Extremes using Threshold Approach. Submitted.

**S. Jeon** and R.L. Smith, Threshold Approach for the Analysis of North Carolina Temperature Data. In preparation.

D. Cooley, J. Cisewski, R. Erhardt, **S. Jeon**, E. Mannshardt, B. Omolo and Y. Sun, (2012) A Survey of Spatial Extremes: Measuring Spatial Dependence and Modeling Spatial Effects. *REVSTAT Statistical Journal*. 10(1) 135–165.

L.M. Casanova, **S. Jeon**, W.A. Rutala, D.J. Weber and M.D. Sobsey. (2010) Effects of Air Temperature and Relative Humidity on Coronavirus Survival on Surfaces. *Applied and Environmental Microbiology*. 76(9) 2712–2717.

- PRESENTATIONS S. Jeon and W.D. Collins, *Analysis of Spatial Dependence Patterns in Precipitation Extremes*, US CLIVAR Extremes Working Group Workshop, Berkeley, CA, 2013 (Poster)
- S. Jeon and W.D. Collins, *Spatial dependence between extreme precipitations in CMIP5*, 12th IMSC, Jeju, Korea, 2013 (Talk)
- S. Jeon and W.D. Collins, *Spatial Dependence Patterns of Extreme Precipitation in California*, BASC Symposium, Berkeley, CA, 2013 (Poster)
- S. Jeon and R.L. Smith, *Threshold Approach in the Analysis of Spatial Extremes*, Joint Statistical Meetings, San Diego, CA, 2012 (Talk in Topic Contributed Session)
- S. Jeon and R.L. Smith, *Threshold Approach for the Analysis of North Carolina Temperature Data*, International Conference on Long-Range Dependence, Self-Similarity, and Heavy Tails, RTP, NC, 2012 (Poster)
- S. Jeon and R.L. Smith, *Max-stable Processes for Threshold Exceedances in Spatial Extremes*, 7th Conference on Extreme Value Analysis, Lyon, France, 2011 (Talk in Contributed Session)
- S. Jeon and R.L. Smith, *Max-stable Processes for Threshold Exceedances in Spatial Extremes*, Spatial Transition Workshop, SAMSI, 2010 (Poster)
- S. Jeon and R.L. Smith, *Threshold Method for Max-stable Processes in Spatial Extremes*, Climate Change Workshop, SAMSI, 2010 (Talk)
- AWARDS **Teaching Award**  
Excellence in Teaching Award, Department of Statistics and Operations Research, UNC-Chapel Hill, 2011
- SAMSI Travel Award**  
Award by SAMSI given to graduate students to attend *SAMSI/Sandia Summer School on Uncertainty Quantification*, June 20–24, 2011
- Scholarship Recipient**  
Stipend and tuition support with departmental assistantship by UNC-Chapel Hill for five years, 2007 to 2012
- Partial tuition support to honor undergraduate students by Seoul National University for four semesters, 2001 to 2003
- REVIEW ACTIVITY Journal reviewer for *Journal of the Korean Statistical Society*, December 2011
- ACTIVITIES Accountant General, *Korean Association of Students and Scholars*, UNC-Chapel Hill, August 2009 to July 2010
- Managed a \$8,500 budget and sought fundraising opportunities
  - Organized the annual meeting of KASS
- President, *Stepping Stones*, Seoul National University, April 2000 to August 2002
- Served free tutoring and raised funds for middle and high school students
  - Composed activities and edited news releases for program booklet
- TECHNICAL SKILLS Statistical Software: R, Matlab, SAS, SPSS, Splus

Programming: C, C++  
Other: Latex

REFERENCES

Available upon request