

Anji Seth

CONTACT INFORMATION

Department of Geography
215 Glenbrook Road, U-4148
University of Connecticut
Storrs, CT 06269 USA

Voice: (860) 486-3204
Fax: (860) 486-1348
E-mail: anji.seth@uconn.edu
WWW: www.geography.uconn.edu/people/seth.html

RESEARCH INTERESTS

Regional climate variability and change; Climate modelling;
Interactions of societies with climate.

EDUCATION

University of Michigan, Ann Arbor, MI, USA
Ph.D., Atmospheric Sciences, 1995

Worcester Polytechnic Institute, Worcester, MA, USA
B.S., Mechanical Engineering, 1985

PROFESSIONAL HISTORY

Associate Professor, 2011-present,
University of Connecticut, Department of Geography, Storrs, CT.
Assistant Professor, 2008-2011,
University of Connecticut, Department of Geography, Storrs, CT.
Research Assistant Professor, 2005-2008,
University of Connecticut, Department of Geography, Storrs, CT.
Associate Research Scientist, 1999-2005,
Columbia University, IRI, Palisades, NY.
Visiting Scientist, December 1997–1999,
National Center for Atmospheric Research, Boulder, CO.
Research Associate, 1997,
University of Arizona, Institute of Atmospheric Physics, Tucson, AZ.
Post-Doctoral Fellow, 1995–1997,
National Center for Atmospheric Research, Boulder, CO.
Graduate Research Fellow, Advanced Study Program, 1991–1994,
National Center for Atmospheric Research, Boulder, CO.

GRANTS, FELLOWSHIPS

Seth, A. (PI) 1.5 mo: In-depth Regional Process-level Analyses of NARCCAP and AR5 simulations over North America: Towards Establishing Differential Credibility of Future Regional Climate Simulations, NOAA CPO/MAPP, Collaborative Proposal with National Center for Atmospheric Research (NCAR, L. Mearns), UConn Budget \$234,630, May 2011 - April 2014.

Seth, A. (PI) 1.5 mo: Understanding Changing Seasonality, Variability and Extremes in the Northeast U. S. Climate, NSF CAREER, \$574,711, May 2011 - April 2016.

Singer, M., J. Edson, A. Seth, J. Stephens, M. Willig (co-PIs): Pathways: In Our Neighborhood: Community Science Learning on Climate Change, NSF ISE Climate Change, \$249,925, March 2011 - February 2013, July 2010, not funded.

Seth, A. (PI), B. Liebmann (ESRL, Co-PI), S. Rauscher (LANL, Co-I), M. Rojas (UChile, Co-I): The Roles of Interannual and Intra-seasonal Variability in the Changing Annual Cycle of the American Monsoons, NOAA CPO/CPA, \$419,000, August 2009, not funded.

Seth, A. (PI): Feasibility of downscaling Northeast climate from the NCAR CCSM3 global climate model, Columbia University/NYCDEP, \$15,000, 2008.

Seth, A. (PI): Evaluating recent and projected climate variability in the Andean Highlands: a subaward to Adapting to change in the Andean Highlands: Practices and strategies to address climate and market risks in agro-ecosystems, USAID/SANREM-CRSP, \$105,000, 2006-2009.

Seth, A. (PI), B. Liebmann, S. Camargo: The predictability of onset and character of warm season rains in tropical South America using a nested modeling system, NOAA Pan American Climate Studies (PACS), \$160,000, 2002-2005.

Seth, A. (PI), A study of seasonal rainfall predictability for tropical South America using a nested modeling system, NOAA Pan American Climate Studies (PACS), \$300,000, 1998-2001.

Graduate Research Fellowship, Advanced Study Program, National Center for Atmospheric Research (NCAR), 1991-1994.

TEACHING

University of Connecticut, Storrs, CT, USA

Course Development and Instruction GEOG 1300, Weather, Climate and Environment, SPRING 2006, 2007, 2009, 2010, 2011, 2013 (enrollment 127); GEOG 2300, Introduction to Physical Geography, FALL 2008, 2009, 2010, 2011 (127); GEOG 3400, Climate and Weather, SPRING 2009, 2010, 2011, 2012, 2013 (25); GEOG 4300, Advanced Physical Geography FALL 2009, 2010, 2011, 2012 (13).

Provost GEOC Course Development Grant Introduction to Geography. GEOG 1000, \$9140., May 2011 - Apr 2013, with Robert Cromley.

UConn Service-Learning Faculty Fellowship Developing a Service Learning course, Climate Where We Live, May 2011 - Apr 2012. Implemented Fall 2012 in GEOG 4300.

Faculty Development Abroad Grant Incorporating Regional Climate Research Into the Climate, Environment and Society Curriculum, Department of Geography, UConn Global Citizenship Program, \$4000., May 2010 - Apr 2011

COLLABORATIONS, MENTORING

Regional climate variability and change Filippo Giorgi (ICTP), Sara Rauscher (LANL), Suzana Camargo, Alessandra Giannini (Columbia U), Maisa Rojas (U Chile), Brant Liebmann (NOAA/CDC), Robert DeConto (U Mass), David Pollard (Penn State), Linda Mearns (NCAR), G. Wang, J. M. Thibeault (UConn).

Climate society interactions Cynthia Rosenzweig (Columbia U), Corinne Valdivia (U Missouri), Magali Garcia (UMSA, Bolivia), Roberto Quiroz (CIP, Peru).

Mentoring Undergraduate advising (15), Honors Students, thesis advisor (2); PhD Students, primary advisor (2), committee member(4); Post-Doctoral Researchers, primary advisor (3); Summer Interns, primary advisor (4); Geography Internship, advisor (5).

PROFESSIONAL ACTIVITIES

Member NOAA Modeling Analysis Predictions and Projections (MAPP) Program CMIP5 Task Force, Jan 2012-present

Participant NSF EarthCube Early Career Strategic Visioning Workshop, Washington DC, Oct 16-17, 2012

Ad-Hoc Review Panel DOE Science Graduate Fellowship, April 19-20, 2012

Reviewer Inter-American Institute Collaborative Research Network 3rd round, April 2012

Reviewer U.S. National Climate Assessment Northeast Region Chapter, Feb 2012

Reviewer Intergovernmental Panel on Climate Change (IPCC) 5th Assessment Report (AR5) Second Order Draft, Feb 2012

Reviewer Intergovernmental Panel on Climate Change (IPCC) 5th Assessment Report (AR5) First Order Draft, May 2011

Participant National Climate Assessment, Scenarios Planning Workshop, Washington DC, December 7-8, 2010

Ad-Hoc Review Panel DOE Regional Modeling, Spring 2009

Ad-Hoc Review Panel NOAA Climate Program Office, Fall 2007, Fall 1998

Member CLIVAR VAMOS MESA International Science Working Group, 2008-2012.

Member AMS Committee on Meteorology and Oceanography of the Southern Hemisphere, 2007-2010.

Member AMS, AGU, AAG. *Reviewer* NOAA, NASA, NSF.

Reviewer Journal of Climate (11), Journal of Hydrometeorology (1), Monthly Weather Review (3), Bulletin of the AMS (3), Journal of Geophysical Research (6), Geophysical Research Letters (11),

Climate Dynamics (14), Journal of Atmospheric Sciences (1), International Journal of Climatology (3), Climatic Change (5), Climate Research (6), Asia Pacific Journal of Atmospheric Sciences (1), Journal of Applied Meteorology and Climatology (1).

PAPERS IN
PREPARATION

Lynch, C., and A. Seth, 2013: CMIP5 Projections of the Northeast United States Annual Cycle of Climate, in preparation.

Thibeault, J. and A. Seth, 2013: Changing Climate Extremes in the Northeast U.S.: HadEX2 Observations and CMIP5 Simulations and Projections, in preparation.

MANUSCRIPTS
SUBMITTED

Thibeault, J. and A. Seth, 2013: A Framework for Evaluating Model Credibility for Warm Season Precipitation in Eastern North America: A Case Study of CMIP5 Simulations and Projections, *Journal of Climate*, revised.

Justin Sheffield; Andrew Barrett; Brian Colle; Rong Fu; Kerrie L Geil; Qi Hu; Jim Kinter; Sanjiv Kumar; Baird Langenbrunner; Kelly Lombardo; Lindsey N Long; Eric Maloney; Annarita Mariotti; Joyce E Meyerson; Kingtse C Mo; David Neelin; Zaitao Pan; Alfredo Ruiz-Barradas; Yolande L Serra; Anji Seth; Jeanne M Thibeault; Julienne C Stroeve, 2013: North American Climate in CMIP5 Experiments. Part I: Evaluation of 20th Century Continental and Regional Climatology, *Journal of Climate*, revised.

Eric Maloney, Ph.D; Suzana J Camargo; Edmund Chang; Brian Colle; Rong Fu; Kerrie Geil; Qi Hu; Xianan Jiang; Nathaniel Johnson; Kristopher Karnauskas; James Kinter; Benjamin Kirtman; Sanjiv Kumar; Baird Langenbrunner; Kelly Lombardo; Lindsey Long; Annarita Mariotti; Joyce Meyerson; Kingtse Mo; David Neelin; Zaitao Pan; Richard Seager; Yolande Serra; Anji Seth; Justin Sheffield; Julienne Stroeve; Jeanne Thibeault; Shang-Ping Xie; Chunzai Wang; Bruce Wyman; Ming Zhao, 2013: North American Climate in CMIP5 Experiments: Part III: Assessment of 21st Century Projections, *Journal of Climate*, in revision.

Donald Wuebbles, Gerald Meehl, Katharine Hayhoe, Thomas R. Karl, Kenneth Kunkel, Benjamin Santer, Michael Wehner, Brian Colle, Erich M. Fischer, Rong Fu, Alex Goodman, Emily Janssen, Viatcheslav Kharin, Huikyo Lee, Wenhong Li, Lindsey N. Long, Seth C. Olsen, Zaitao Pan, Anji Seth, Justin Sheffield, Liqiang Sun, 2013: CMIP5 Climate Model Analyses: Climate Extremes in the United States, *Bulletin of the American Meteorological Society*, revised.

PUBLICATIONS

Seth, A., S. Rauscher, M. Biasutti, A. Giannini, S. Camargo, M. Rojas, 2013: CMIP5 Projected Changes in the Annual Cycle of Precipitation in Monsoon Regions, *Journal of Climate*, in press, doi:10.1175/JCLI-D-12-00726.1.

C. Valdivia, J. Thibeault, J. L. Gilles, M. Garca, and A. Seth, 2013: Climate trends and projections for the Andean Altiplano and strategies for adaptation, *Advances in Geosciences*, **33**, 69-77, 2013.

Thibeault, J. M., A. Seth, and G. Wang, 2011: Mechanisms of precipitation variability in the Bolivian Altiplano: Present and Future, *Int. J. Climatology*, doi:10.1002/joc.2424.

Seth, A., S. Rauscher, M. Rojas, S. Camargo, A. Giannini, 2011: Enhanced spring convective barrier for monsoons in a warmer world?, *Climatic Change Let.*, **104**, 403–414, doi:10.1007/s10584-010-9973-8.

Seth, A., J. Thibeault, M. Garcia, C. Valdivia, 2010: Making sense of 21st century climate change in the Altiplano: Observed trends and projections, *Annals Amer. Assoc. Geog.*, **100**, 835–847, doi:10.1080/00045608.2010.500193.

Valdivia, C., A. Seth, J. L. Gilles, M. García, E. Jimenez, J. Cusicanqui, F. Navia, E. Yucra, 2010: Adapting to climate change in Andean ecosystems: Landscapes, capitals, and perceptions

- shaping rural livelihood strategies and linking knowledge systems, *Annals Amer. Assoc. Geog.*, **100**, 818–834, doi:10.1080/00045608.2010.500198.
- Thibeault, J. M., A. Seth, M. Garcia, 2010: Changing climate in the Altiplano: CMIP3 projections for extremes of temperature and precipitation, *J. Geophys. Res.*, **115**, D08103, 18pp., doi:10.1029/2009JD012718.
- Seth, A., M. Rojas, S. A. Rauscher, 2010: CMIP3 projected changes in the annual cycle of the South American Monsoon, *Climatic Change*, **98**, 331–357, doi:10.1007/s10584-009-9736-6.
- Rauscher, S., F. Giorgi, N. Diffenbaugh, A. Seth, 2008: Extension and Intensification of the Meso-American Mid-summer Drought in the 21st Century, *Climate Dynamics*, **31**, 551–571, doi:10.1007/s00382-007-0359-1.
- Rauscher, S., A. Seth, B. Liebmann, J.-H. Qian, and S. Camargo, 2007: Subseasonal statistics from a regional model climatology for South America: Rainy season onset, dry and wet spells, *Monthly Weather Review*, **135**, 2642–2657.
- Liebmann, B., S. Camargo, J. Marengo, C. Vera, A. Seth, L. Carvalho, D. Allured, R. Fu, 2007: Onset and End of the Rainy Season in South America in Observations and an Atmospheric General Circulation Model, *Journal of Climate*, **20**, 2037–2050.
- Seth, A., S. Rauscher, S. Camargo, J.-H. Qian, and J. Pal, 2006: RegCM regional climatologies for South America using reanalysis and ECHAM model global driving fields, *Climate Dynamics*, DOI 10.1007/s00382-006-0191-z.
- Meehl, G. A., J. M. Arblaster, D. Lawrence, A. Seth, E.K. Schneider, B.P. Kirtman, and D. Min, 2006: Monsoon regimes in CCSM3, *Journal of Climate*, **19**, 2482–2495.
- Rauscher, S., A. Seth, J. Qian, and S. Camargo, 2006: Regional climate model domain choice in the tropics based on process considerations, *Theoretical and Applied Climatology*, doi:10.1007/s00704-006-0206-z.
- Landman, W., A. Seth and S. Camargo, 2005: The effect of regional climate model domain choice on the Simulation of tropical cyclone-like vortices in the Southwestern Indian Ocean, *Journal of Climate*, **18**, 1263–1274.
- Seth, A., M. Rojas, B. Liebmann, and J. Qian, 2004: Daily rainfall analysis for South America from a regional climate model and station observations, *Geophysical Research Letters*, **31**, L07213, doi:10.1029/2003GL019220.
- Qian, J.-H., A. Seth and S. Zebiak, 2003: Reinitialized versus Continuous Simulations for Regional Climate Downscaling, *Monthly Weather Review*, **131**, 2857–2873.
- Seth, A. and M. Rojas, 2003: Simulation and sensitivity in a nested modeling system for tropical South America. Part I: Reanalyses boundary forcing, *Journal of Climate*, **16**, 2437–2453.
- Rojas, M. and A. Seth, 2003: Simulation and sensitivity in a nested modeling system for tropical South America. Part II: GCM boundary forcing, *Journal of Climate*, **16**, 2454–2471.
- Waple, A.M., and J.H. Lawrimore, editors. L. Alexander, B. Horton, P. Ambenje, G. Bell, M. Halpert, O.N. Bulygina, N.N. Korshunova, V.N. Razuaev, S.J. Camargo, B. Lyon, A. Seth, J. Christy, A. Douglas, K. Gleason, J.H. Lawrimore, M. Menne, A. Waple, D. Hardy, C. McBride, D. Phillips, R. Pielke Sr., C.L. Castro, D. Robinson, J. Salinger, R. Schnell, A. Watkins, 2003. State of the Climate in 2002, *Bull. Amer. Meteor. Soc.*, **84**, S1–S68.
- Julia Nogue-Paegle, Carlos R. Mechoso, Rong Fu, E. Hugo Berbery, Winston, C. Chao, Tsing-Chang Chen, Kerry Cook, Alvaro F. Diaz, David Enfield, Rosana Ferreira, Alice M. Grimm, Vernon Kousky, Brant Liebmann, Jose Marengo, Kingtse Mo, J. David Neelin, Jan Paegle, Andrew W. Robertson, Anji Seth, Carolina S. Vera, Jiayu Zhou, 2002: Progress in Pan American CLIVAR

Research: Understanding the South American Monsoon. *Meteorologica*, **1**, 3–32.

Seth, A., R.C. Bales and R.E. Dickinson, 1999: A framework for the study of seasonal snow hydrology and its interannual variability in the Alpine regions of the Southwest, *Journal of Geophysical Research*, **104**, 22117–22135.

Seth, A., and F. Giorgi, 1998: The effects of domain choice on summer precipitation simulation and sensitivity in a regional climate model, *Journal of Climate*, **11**, 2698–2712.

Seth, A., and F. Giorgi, 1996: A 3-dimensional model study of organized mesoscale circulations induced by vegetation. *Journal of Geophysical Research*, **101**, pp. 7371–7391.

Seth, A., F. Giorgi and R.E. Dickinson, 1994: Simulating fluxes from heterogeneous land surfaces: Explicit subgrid method employing the Biosphere–Atmosphere Transfer Scheme (BATS). *Journal of Geophysical Research*, **99**, pp. 18651–18667.

INVITED TALKS,
CONFERENCE
ABSTRACTS

Seth, A., S. Rauscher, M. Biasutti, A. Giannini, S. Camargo, M. Rojas, 2013: The Annual Cycle of Precipitation in Monsoon Regions in a Warmer World, *Davos Atmosphere and Cryosphere Assembly*, 8–13 Jul, Davos, Switzerland.

Seth, A., 2013: CMIP5 Projected Redistribution of Rainfall in Monsoon Annual Cycles, *Stony Brook University – SUNY*, 8 May, Stony Brook, NY, INVITED.

Seth, A., S. Rauscher, 2012: CMIP5 Projected Changes in the Annual Cycles of Precipitation in Monsoon Regions, *AGU Fall Meeting*, 3–7 Dec, San Francisco, CA.

Seth, A., S. Rauscher, 2012: Springtime Drying of Monsoons in a Warmer World: CMIP5 Analysis, *World Climate Research Program (WCRP) Workshop on CMIP5 Climate Model Analysis*, 5–9 Mar, Honolulu, HI, INVITED.

Seth, A., S. Rauscher, 2011: Annual Cycle of Monsoon Precipitation in CMIP5 Projections, *AGU Fall Meeting*, 4–9 Dec, San Francisco, CA. Session Organizer.

Seth, A., 2011: Enhanced Spring Convective Barrier for Monsoons in a Warmer World?, *Lamont Doherty Earth Observatory of Columbia University*, 22 Apr, Palisades, NY, INVITED.

Seth, A., 2011: Response of Regional Monsoons to Greenhouse Warming, *AAG Annual Meeting*, 11–15 Apr, Seattle, WA.

Seth, A., 2010: Response of Regional Monsoons to Global Warming, *AGU Fall Meeting*, 13–17 Dec, San Francisco, CA.

Seth, A., L. Mearns, 2010: Climate Change Scenarios for the Adirondack Region, *Adirondack Climate Change Workshop*, 17–18 Nov, Blue Mountain Lake, NY, INVITED.

Seth, A., R. Quiroz, 2010: Climate Change and Its Projected Impact on Plant Production in the Developing World, *Global Food Security in a Changing Climate Symposium, American Society of Agronomy*, 1 Nov, Long Beach, CA, INVITED.

Seth, A., 2010: Plans for high-resolution simulation and analysis of 21st century Northeast U.S. climate, *New England Regional Climate Modeling Workshop*, 8 Oct, UMass-Amherst, MA, INVITED.

Seth, A., M. Rojas, S. A. Rauscher, S. Camargo, A. Giannini, 2010: A proposed mechanism for seasonal precipitation changes in regional monsoons, *5th ICTP Workshop on the Theory and Use of REGIONAL Climate Models*, 31 May – 11 June, Trieste, ITALY, INVITED.

Seth, A., M. Rojas, S. A. Rauscher, S. Camargo, A. Giannini, 2010: A greenhouse forced change in the annual cycle of global monsoons?, *Spring 2010 Joint Colloquium Series Department of Atmospheric & Environmental Sciences & Atmospheric Sciences Research Center*, 3 May,

SUNY Albany, NY, INVITED.

- Seth, A., M. Rojas, S. A. Rauscher, S. Camargo, A. Giannini, 2010: Global monsoon response to greenhouse warming, *2010 Annual Meeting of the American Association of Geographers*, 14-18 April, Washington, D.C.
- Seth, A., M. Rojas, S. A. Rauscher, A. Giannini, S. Camargo, 2009: A global response in regional monsoons under greenhouse warming: Understanding mechanisms and uncertainties, *American Geophysical Union Fall Meeting*, 14-18 Dec, San Francisco, CA.
- Seth, A., M. Rojas, S. A. Rauscher, 2009: Projected precipitation shifts in the annual cycle of monsoons, *University of Massachusetts GeoSciences Seminar Series*, 13 November, Amherst, MA, INVITED.
- Seth, A., M. Rojas, S. A. Rauscher, 2009: Projected changes in the annual cycle of the South American Monsoon, *International Association of Meteorology and Atmospheric Sciences (IAMAS/MOCA-09)*, 19-24 July, Montreal, CANADA.
- Seth, A., 2009: Altiplano Climate: Making sense of 21st century projections, *Universidad Mayor de San Andres*, 24 June, La Paz, BOLIVIA, INVITED.
- Seth, A., 2009: Climate change science, *University of Connecticut Coastal Perspectives Lecture Series*, 21 April, Avery Point, CT, INVITED.
- Seth, A., M. Rojas, S. Rauscher, J. Thibeault, M. Garcia. 2009. Projected Changes in the Annual Cycle of the South American Monsoon: Implications for Seasonal Extremes. American Association of Geographers Annual Meeting, 22-27 March, Las Vegas, NV.
- J. Thibeault, A. Seth, G. Wang. 2009. The Future of Drought in the Bolivian Altiplano: Projected Changes in Drought Severity and Soil Moisture and Relationships with Zonal Wind Anomalies. American Association of Geographers Annual Meeting, Las Vegas, NV, 22-27 March, Las Vegas, NV.
- Seth, A., M. Rojas, S. Rauscher, C. Valdivia, J. Thibeault, M. Garcia 2008: CMIP3 Projected changes in the annual cycle of the South American Monsoon and implications for the Altiplano, *American Geophysical Union Fall Meeting*, 15-19 Dec, San Francisco, CA.
- Seth, A., 2008: 21st century climate and implications for transportation, *Transportation Seminar Series*, University of Connecticut, 10 November, Storrs, CT, INVITED.
- Seth, A., J. Thibeault, M. Garcia 2008: 21st Century Climate and Extremes in the Altiplano, *SANREM CRSP Annual Program Meeting*, 26-28 May, Manilla, Philippines, INVITED.
- Seth, A., 2008: Next generation computing and high resolution climate science, *NSF Workshop on Supercomputing and Climate*, 12-15 May, Cairo, Egypt, INVITED.
- Seth, A., J. Thibeault, 2008: Changes in timing of the South American Monsoon?, *American Association of Geographers Annual Meeting*, 15-19 April, Boston, MA.
- Seth, A., 2007: Global Climate Change: An introduction and summary of the IPCC AR4, *International Seminar on Effects of Global Change on Andean Agriculture*, 28 June, La Paz, Bolivia.
- Seth, A., J. Thibeault 2007: How will climate change affect the Andean Highlands?, *International Seminar on Effects of Global Change on Andean Agriculture*, 28 June, La Paz Bolivia.
- Seth, A., 2007: Implications of climate change for the Andean Highlands, *Environmental Engineering Seminar*, University of Connecticut, 27 April, Storrs, CT.
- Seth, A., J. Thibeault, M. Garcia 2007: Climate variability and change in the Andean Highlands, *American Association of Geographers Annual Meeting*, 17-21 April, San Francisco, CA.

- Seth, A., R. DeConto, D. Pollard, 2006: Adapting RegCM3 to the south polar region: Results from a 10-year nested simulation, *American Geophysical Union Fall Meeting*, 11–15 December, San Francisco, CA.
- Seth, A., S. Rauscher, S. Camargo, J-H Qian, J. Pal, 2006: GCM and Reanalysis Driven Regional Model Climatologies for South America, *Third International Conference on Theory and Use of Regional Climate Models*, 29 May - 9 June, ICTP, Trieste, Italy, INVITED.
- Seth, A., 2006: Climate in the Altiplano: Observed and simulated variability and trends, *Adapting to change in the Andean Highlands, SANREM CRSP*, 24-28 April, La Paz, Bolivia.
- Seth, A., S. Rauscher, S. Camargo, J-H Qian, 2006: GCM and Reanalysis Driven Regional Model Climatologies for South America, *Eighth International Conference on Southern Hemisphere Meteorology and Oceanography*, 24-28 April, Foz do Iguaçu, Brazil.
- Seth, A., 2006: A brief history of climate science in the 20th Century, *Program in Geosciences, University of Connecticut*, Storrs, CT, February.
- Seth, A., S. Rauscher and B. Liebmann 2005: Evaluation of nested regional model ensemble climatology for South America: Annual cycle, interannual variability, and rainy season onset, *CLIVAR VAMOS MESA Science Working Group*, 7-11 March, Mexico City, INVITED.
- Rauscher, S., A. Seth and B. Liebmann 2004: Regional climate model simulated timing and character of seasonal rains in South America, *American Geophysical Union Fall Meeting*, 13-17 December, San Francisco.
- Seth, A., S. Rauscher, and S. Camargo 2004: Interannual variability of South American climate in a regional climate model and observations, *American Geophysical Union Fall Meeting*, 13-17 December, San Francisco.
- Seth, A., 2004: Seasonal extremes and subseasonal statistics for South America from a regional climate and observations, *GEWEX CEOP Inter Monsoon Study, Workshop on American Monsoons*, 16-18 September, Montevideo, Uruguay, INVITED.
- Seth, A., S. Rauscher, J.-H. Qian, and S. Camargo, 2004: Choosing a nested model domain for climatological integrations over South America, *2nd Workshop on the theory and use of regional climate models*, May 31-June 9, ICTP, Trieste, Italy, INVITED.
- Seth, A., 2004: Dynamical downscaling seasonal extremes and subseasonal statistics: some examples from South America, *Indian Institute of Science*, February 19, Bangalore.
- Seth, A., Analyzing warm season daily rainfall from a nested modeling system for South America, *Role of Indian Ocean in Climate Variability of India, INDOCLIM*, February 22-27, Indian Institute for Tropical Meteorology, Pune.
- Seth, A., M. Rojas and B. Liebmann, 2003: Analysis of daily rainfall and seasonal extremes from a nested modeling system for South America, *U.S. CLIVAR Pan American Workshop*, September 16-18, Boulder, CO.
- Seth, A. 2003: Analysis of daily rainfall from a nested modeling system for South America, *Workshop on the theory and use of regional climate models*, May 26-June 6, Trieste, INVITED.
- Seth, A. 2003: Simulating rainfall extremes in South America: sensitivity to remote and local forcing, *Workshop on the theory and use of regional climate models*, May 26-June 6, Trieste, INVITED.
- Seth, A. and M. Rojas, 2003: Warm season daily rainfall in South America using a nested modeling system, *Seventh International Conference on Southern Hemisphere Meteorology and Oceanography*, 24-28 March, Wellington, New Zealand.
- Seth, A. and B. Lyon, 2003: Impacts of El Niño 2002-2003: Southern Africa and South Asia, *Seventh International Conference on Southern Hemisphere Meteorology and Oceanography*,

24-28 March, Wellington, New Zealand.

- Seth, A., 2002: Climate Impacts Monitoring and Analysis for El Niño 2002-2003, *International Workshop on Regional Integrated Assessment of Climate Impacts*, September 16-20, 2002, Castelvecchio Pascoli, Italy.
- Phillips, J. G. and A. Seth, 2002: Characteristics that help households weather climate variability, now and in the future, *AGU Spring Meeting*, 28-31 May, Washington, D.C.
- Seth, A. and M. Rojas, 2002: Reanalyses and GCM driven nested model sensitivity studies for South America, *13th Symposium on Global Change and Climate Variations, American Meteorological Society Annual Meeting*, 12-17 January, Orlando, FL.
- Seth, A., 2001: Transferability of a regional climate model between the tropics and mid-latitudes, *American Geophysical Union Fall Meeting*, 10-15 December, San Francisco, CA, INVITED.
- Seth, A., 2001: Tropical/sub-tropical relationships in nested model simulations of the South American monsoon system, *Monsoon Systems Around the World, 8th Scientific Assembly of International Association of Meteorology and Atmospheric Sciences (IAMAS)*, 10-18 July, Innsbruck, Austria.
- Seth, A., 2001: Influences of Amazon basin moisture on seasonal precipitation in a regional climate model study, *American Geophysical Union Spring Meeting*, 29 May - 2 June, Boston, MA.
- Seth, A. and M. Rojas-Corradi, 2000: A methodology for evaluating dynamical downscaling tools for seasonal prediction: A test case for tropical America, *25th Climate Diagnostics and Prediction Workshop*, 23-27 October, Palisades, New York.
- Rojas-Corradi, M. and A. Seth, 2000: A nested regional climate study over tropical America: sensitivity to boundary conditions, *25th Climate Diagnostics and Prediction Workshop*, 23-27 October, Palisades, New York.
- Seth, A., 2000: Dynamical downscaling of climate anomalies in tropical South America, *Sixth International Conference on Southern Hemisphere Meteorology*, Santiago, Chile, April.
- Seth, A., 1999: Regional climate simulations over tropical South America with the NCAR regional model, *Workshop on Regional Climate Prediction and Downscaling Techniques for South America*, Petropolis, Brasil, September.
- Seth, A., 1999: Regional climate model studies of warm season rainfall in tropical South America. *AMS Climate Variations Meeting*, Denver, September. Seth, A., 1999: Seasonal atmospheric moisture transports in the Amazon Basin. *IUGG*, Birmingham, UK, July.
- Seth, A., 1999: Applications of regional climate models, *International Research Institute for Climate Prediction, Columbia University*, New York, April.
- Seth, A., 1999: Simulating winter season hydrology in the western United States, *AMS Annual Meeting*, Dallas, January.
- Seth, A., 1998: Can a regional climate model be used to predict seasonal water resource anomalies in the Southwest? *Program in Atmospheric and Oceanic Sciences (PAOS)*, University of Colorado, November, INVITED.
- Seth, A. and L.O. Mearns, 1998: The Role of Numerical Climate Models in Assessments of Climate Variability and Environmental Change, *Eastern Midwest Climate Change Workshop*, Indianapolis, IN, June, INVITED.
- Seth, A., 1997: Capabilities of the NCAR Regional Climate Model (RegCM) for Seasonal Prediction Studies over North America, *Modeling Strategy for Regional Climate Prediction and Assessment: A PACS/GCIP workshop*, NOAA, Silver Spring, MD, October, INVITED.

- Seth, A., 1997: Remote Vs Local Control of Extreme Precipitation Events: A Regional Climate Model Study, *Atmospheric Sciences*, University of Arizona, Tucson, AZ, October.
- Seth, A., 1997: Simulation Vs Sensitivity in a Regional Climate Model, Center for Ocean-Land-Atmosphere Studies (COLA), Calverton, MD, September, INVITED.
- Seth, A., 1997: Sensitivity of a Regional Climate Model to Organized Mesoscale Circulations Induced by Vegetation, *AMS Annual Meeting*, Special symposium on boundary layer and turbulence, Long Beach, CA, INVITED.
- Seth, A. and F. Giorgi 1997: A Regional Climate Model Study of the Role of Soil Moisture in the Extreme Events of 1988 and 1993 in the Central United States, *AMS Annual Meeting*, 13th Conference on hydrology, Long Beach, CA.
- Seth, A., 1996: The Sensitivity of Summertime Precipitation to Choice of Domain in a Regional Climate Model, *NCAR Climate and Global Dynamics Division Seminar*, Boulder, CO.
- Seth, A., 1994: Atmospheric Response to Heterogeneous Land Surface Thermal Forcing: Implications for Climate, *AGU Fall Meeting*, San Francisco, CA.
- Seth, A., 1994: The Sensitivity of a 3-Dimensional Atmospheric Model to Land surface forcing, *Workshop on test and evaluation of the USGS 1-km AVHRR land cover characteristics data for the conterminous United States*, April 18-20, INVITED.
- Seth, A. and F. Giorgi, 1992: An Explicit Treatment of Land Surface Heterogeneities Using a Vectorized Form of the Biosphere Atmosphere Transfer Scheme (VBATS), *AGU Fall Meeting*, San Francisco, CA.

PROCEEDINGS,
TECHNICAL
REPORTS

- Landman, W., A. Seth, and S. Camargo, 2002: The effect of regional climate model domain choice on the simulation of tropical cyclone-like vortices in the southwestern Indian Ocean, *IRI Technical Report*, No. 02-06, pp. 33.
- Seth, A., M. Dille, J. G. Phillips, L. Goddard, C. Clark, C. Ropelewski, 2002: Preparing for El Niño: Advancing regional plans and interregional communication. *Workshop Proceedings*, April 29–May 2, Palisades, NY, pp. 72.

SCIENTIFIC
OUTREACH

- Seth, A., 2013: Climate Change Where We Live, *CT State Museum of Natural History*, 4 November, Storrs, CT, INVITED.
- Seth, A., 2013: Climate Change the Scientific Basis, *University of Connecticut Law School*, 4 February, Hartford, CT, INVITED.
- Seth, A., 2012: Climate Science: Contrary to Popular Belief, *Service Learning Presentation by students in GEOG 4300/5390*, 13 November, Tolland Public Library, Tolland, CT.
- Seth, A., 2012: Climate Science Foundations and Frontiers, *Climate Change Risks and Liability: The Future of Insurance and Litigation*, 5 Oct, University of Connecticut Law School, Hartford, CT, INVITED.
- Seth, A., 2012: Climate Literacy & Energy Awareness Network (CLEAN) Review of online resources for climate science education, *TERC*, 7 May, Cambridge, MA, INVITED.
- Seth, A., 2012: Climate Models: What are they? What are they good for?, *CT Climate Change Education Group*, 22 Feb, online webinar, INVITED.
- Seth, A., 2012: Climate Change the Scientific Basis, *University of Connecticut Law School*, 24 January, Hartford, CT, INVITED.
- Seth, A., 2011: The Science of Climate Change, *Avery Heights Community Lecture Series*, 12 May,

Hartford, CT, INVITED.

- Seth, A., 2011: Climate Change the Scientific Basis, *University of Connecticut Law School*, 2 February, Hartford, CT, INVITED.
- Seth, A., 2010: An Introduction to the IPCC Working Group I 2007 Report, *University of Connecticut Law School*, 28 January, Hartford, CT, INVITED.
- Seth, A., 2009: Making sense of 21st century climate in the Altiplano, *United States Agency for International Development (USAID)*, 7 May, Washington, DC, INVITED.
- Seth, A., 2009: Global Warming: Keeping Up with the Science, *Global Warming Town Hall Meeting with US Rep Joe Courtney*, 14 April, Storrs, CT, INVITED.
- Seth, A., 2009: 21st Century climate in the Altiplano, *National Program on Climate Change*, 10 January, La Paz, Bolivia, INVITED.
- Seth, A., 2009: Climate Change Science, *University of Connecticut Law School*, 29 January, Hartford, CT, INVITED.
- Seth, A., 2008: Climate change in the Andes: Implications for adaptation, *Knight Foundation*, 29 April, Lima, Peru, INVITED.
- Seth, A., 2008: The Scientific basis for anthropogenic climate change *Engineer's Week Keynote Seminar*, Westinghouse Electric, 21 February, Windsor, CT, INVITED.
- Seth, A., 2007: What does the science say about global warming? *UConn/Mansfield Climate Change Seminar*, University of Connecticut, 1 November, Mansfield, CT, INVITED.
- Seth, A., 2007: Climate Change Science, *Connecticut Business and Industry Association (CBIA) Fall Meeting*, 26 October, Middletown, CT, INVITED.
- Seth, A., 2007: Are humans responsible for global warming? *Climate Change Teach-In*, E. O. Smith High School, 25 April, Mansfield, CT, INVITED.
- Seth, A., 2007: Global Warming Panel Discussion moderated by US Congressman John B. Larson, *World Affairs Council*, Mark Twain House, 10 April, Hartford, CT, INVITED.
- Seth, A., 2006: Climate: How did we get here? Where on Earth are we going? , *Global Issues Conference: Climate Change*, Manchester Community College, October, Manchester, CT, INVITED.
- Seth, A., 2006: Red Sky at Morning, by James Gustave Speth, Book Discussion, *West Hartford Public Library*, April, West Hartford, CT.
- Seth, A., 2003: CLIVAR and GECAFS, *Global Environmental Change and Food Systems (GECAFS) Proposal Planning Workshop*, 24-26 February, St. James, Barbados, INVITED.
- Seth, A., 2003: The climate factor in evolving regional impacts, *Meeting of the IRI Board of Overseers*, January 22-23, 2003, Palisades, New York.
- Seth, A., 2002: Regional Climate Modeling Research and Applications at the IRI, *Southern Africa Regional Atmospheric Modeling Workshop*, November 25-29, 2002, University of Pretoria, South Africa, INVITED.
- Seth, A., 2002: Climate information for applications, *Human Dimensions of Global Change Research, Principal Investigators Meeting*, 23-25 October, Seabrook Island, South Carolina.
- Seth, A., 2001: Climate forecasts and uncertainty, *Workshop on Media and Climate Information*, 24-25 August, Jinja, Uganda.
- Seth, A., 2001: Climate and the Role of Oceans, *Workshop on Media and Climate Information*,

24-25 August, Jinja, Uganda.

Regional Climate Research: Needs and Opportunities Workshop, 2-4 April 2001, Boulder, CO.

IRI/WMO/IDB Mission to Review Existing Infrastructure and Capabilities for an ENSO Early Warning System, 10-14 October 2000, Kingston, Jamaica.

Seth, A., 1999: Climate model predictions for the February-May 2000 rainy season in Northeast Brazil. FUNCEME, Fortaleza, Brazil, December.

Seth, A., C.F. Ropelewski, and M.B. Blumenthal, 1999: The IRI Climate Information System for Water Resources. *AWRA Annual Meeting*, Seattle, December.

INSTITUTIONAL
SERVICE

- 2012-13: *Chair, Head Search, Department of Geography; Geography Graduate Director; Geography PTR Committee; UConn Atmospheric Sciences Group; Teale Lecture Series host for speaker David Archer; University Environmental Policy Advisory Council; CESE Advisory Committee; Environmental Sciences Program Advisory Committee*
- 2011-12: *Geography Graduate Coordinator, Atmospheric Sciences Group, Teale Lecture Series organizing committee, University Environmental Policy Advisory Council, CESE advisory committee, Environmental Sciences Program liason*
- 2010-11: *Geography Graduate Committee, Atmospheric Sciences Group, Teale Lecture Series host for speaker Andrew Revkin, University Environmental Policy Advisory Council, CESE advisory committee, Environmental Sciences Program liason*
- 2009-10: *Geography Graduate Committee, Geography/Geosciences Search Committee, University Environmental Policy Advisory Council, University Provost General Education Course Grant Competition Review Panel, CESE advisory committee, Atmospheric Sciences Group, Environmental Sciences Program liason, Teale Lecture Series organizing committee*
- 2008-09: *Geography Graduate Committee, UConn Climate Change Action Task Force, Atmospheric Sciences Group, Environmental Sciences Program liason*
- *International workshop on preparing for El Niño: Advancing regional plans and interregional communication*, IRI, 29 April – 2 May 2002, Palisades, New York, *Chair* and principal organizer, with M. Dilley, J. Phillips, L. Goddard, C. Clark, and C. Ropelewski.
- *Early career investigators workshop on multidisciplinary research*, Earth Institute, Columbia University, 27 February 2002, New York, New York, *Co-Chair*, with J. Phillips (Chair) and K. Mastriani.
- *Workshop on media and climate information*, 24–25 August 2001, Jinja, Uganda, *Co-Organizer*, with J. Phillips (principal organizer), T. Kestin, and G. Marcus.