

Anji Seth

CONTACT INFORMATION

Department of Geography
215 Glenbrook Road, U-4148
University of Connecticut
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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

Professor, 2017-present,
Associate Professor, 2011-2017,
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.

PUBLICATIONS

- Karmalkar, A. V., Thibeault, J. M., Bryan, A. M., and Seth, A. (2019). Identifying credible and diverse GCMs for regional climate change studies: case study: Northeastern United States. *Climatic Change*, 1-20.
- Seth, A., Giannini, A., Rojas, M., Rauscher, S. A., Bordoni, S., Singh, D., and Camargo, S. J. (2019). Monsoon Responses to Climate Changes Connecting Past, Present and Future. *Current Climate Change Reports*, 1–17.
- Bukovsky, M., McCrary, R., Seth, A. and Mearns, L. O. (2017). A Mechanistically Credible, Poleward Shift in Warm-Season Precipitation Projected for the U.S. Southern Great Plains?. *Journal of Climate*, **30**, 8275–8298, doi: 10.1175/JCLI-D-16-0316.1.
- Camargo, S. and A. Seth, 2016: Hottest summers the new normal. *Environmental Research Letters*, **11**, 081001, doi:10.1088/1748-9326/11/8/081001.
- Rojas, M., Arias, P., Flores-Aqveveque, V., Seth, A. and Vuille, M., 2016: The South American monsoon variability over the last millennium in climate models. *Climate of the Past*, **12**, 1681–1691, doi:10.5194/cp-12-1681-2016.

- Lynch, C., Seth, A., and Thibeault, J., 2016: Recent and Projected Annual Cycles of Temperature and Precipitation in the Northeast United States from CMIP5. *Journal of Climate*, **29**(1), 347-365, doi:10.1175/JCLI-D-14-00781.1.
- Seth, A., Fernandes, K., and Camargo, S. J., 2015: Two summers of São Paulo drought: Origins in the western tropical Pacific. *Geophysical Research Letters*, **42**, 10,816-10,823, doi:10.1002/2015GL066314.
- J. Thibeault and A. Seth, 2015: Toward the Credibility of Northeast United States Summer Precipitation Projections in CMIP5 and NARCCAP Simulations, *Journal of Geophysical Research-Atmospheres*, **120**(19), doi:10.1002/2015JD023177.
- J. Thibeault and A. Seth, 2014: Changing Climate Extremes in the Northeast U.S.: HadEX2 Observations and CMIP5 Simulations and Projections, *Climatic Change*, **127**, 273287, doi:10.1007/s10584-014-1257-2.
- 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, 2014: CMIP5 Climate Model Analyses: Climate Extremes in the United States, *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-D-12-00172.1.
- 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; Julianne Stroeve; Jeanne Thibeault; Shang-Ping Xie; Chunzai Wang; Bruce Wyman; Ming Zhao, 2014: North American Climate in CMIP5 Experiments: Part III: Assessment of 21st Century Projections, *Journal of Climate*, **27**, 6, 2230–2270, doi:10.1175/JCLI-D-13-00273.1.
- Thibeault, J. and A. Seth, 2014: 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*, **27**, 2, 493–510, doi:10.1175/JCLI-D-12-00846.1.
- 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; Julianne C Stroeve, 2013: North American Climate in CMIP5 Experiments. Part I: Evaluation of 20th Century Continental and Regional Climatology, *Journal of Climate*, **26**, 23, 9209-9245, 10.1175/JCLI-D-12-00592.1.
- 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*, **26**, 19, 7328-7351, 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. Razuvaev, 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.

MANUSCRIPTS
SUBMITTED

Kirchhoff, C. J., Barsugli J.J., Galford, G. L., Karmalkar, A. V., Lombardo, K., Stephenson, S., Barlow, M., Seth, A., Wang, G. and Frank, A. (2019). Climate Assessments for Local Action, *Bull. Amer. Meteor. Soc.*, revised.

GRANTS,
FELLOWSHIPS:
FUNDED

Seth, A. (PI) Wang, G., Anyah, R., Kirchhoff C., Lombardo K., Stephenson, S., Connecticut Physical Climate Science Assessment Report (PCSAR), CT Institute for Resilience and Climate Adaptation (CIRCA), \$71,422, Sep 2017 - Dec 2018.

Seth, A. (PI): 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.

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.

GRANTS,
FELLOWSHIPS:
DECLINED

Seth, A. (PI) Cavallari, J. and Wang, G. (Co-PIs), Park-Boush, L., Kirchoff, C., Lombardo, K., Schenck, P., Stephenson, S. and Wagstrom, K. (Core Participants), NRT: Training Leaders in Translational Research at the Nexus of Weather, Water, and Well-Being, NSF National Research Traineeship, \$2,999,833, and Aug 2018–Jul 2023. Seth, A. (PI) 1 mo: A Novel Regional Detection and Attribution Framework for the Western U.S., DOE, Collaborative Proposal with University of Delaware (S. Rauscher), UConn Budget \$264,553, Oct 2014 - Sep 2017, declined.

Seth, A. (PI) 1.5 mo, Thibeault, J. (Co-PI): North American Ice Storms and Heat Waves in CMIP5 models: Present and Future, DOE, UConn Budget \$518,948, Sep 2014 - Aug 2017, declined.

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, declined.

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/CPPA, \$419,000, August 2009, declined.

TEACHING

Undergraduate Course Development and Instruction: University of Connecticut

GEOG 1300 online Fall 2018/Spring 2019: Development of online version of GEOG 1300 working with E-campus and CETL Instructional Designer (Betsy Guala) to be taught summer 2019.

UConn@COP23 Co-Led 15 Students and 3 Faculty to UNFCCC COP24, Katowice, Poland Dec 2018.

GEOG 1300 Weather, Climate and Environment SPRING 2006(30), 2007(56), 2009(117), 2010(126), 2011(109), 2013(122), 2016(64), 2017(44), 2018(60), 2019 (70)

GEOG 4300 Advanced Physical Geography FALL 2009, 2010, 2011, 2012, 2013, 2014, SPRING 2017 (8).

GEOG 2300 Introduction to Physical Geography FALL 2008(98), 2009(126), 2010(80), 2011 (102), 2016(90), 2017(99) 2018 (109)

GEOG 3400 Climate and Weather SPRING 2009(24), 2010(25), 2011(28), 2012(17), 2013(25), 2014(26), 2016(48), FALL 2016(23), 2017(40), 2018(33)

UConn@COP23 Co-Led 14 Students and 4 Faculty to UNFCCC COP23, Bonn, Germany Nov 2017.

UConn@COP22 Co-Led 12 Students and 4 Faculty to UNFCCC COP22, Morocco Nov 2016.

GEOG 4098 Variable Topics Paris 2015 Climate Summit COP21 Debrief, SPRING 2016(2)

UConn@COP21 Co-Led 12 Students and 4 Faculty to UNFCCC COP21, Paris Dec 2015.

GEOG 4090/4091 Intern in Geography F2010(1), S2007(1), 2011(1), 2012(2), F2017(1).

INTD 4697W Senior Thesis (Honors) SPRING 2010(1).

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 4300/5390.

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

Graduate Course Development and Instruction: University of Connecticut

GEOG 6880 Seminar: Human Environment Dynamics SPRING 2018(4).

GEOG 5390 Advanced Physical Geography FALL 2009, 2010, 2011, 2012, 2013, 2014, 2017 (4).

GEOG 5810 Special Problems in Geography SPRING 2010 FALL 2010 (1).

GEOG 6800 Practicum in College Teaching SPRING 2011 (1).

GEOG 6950 Dissertation Research FALL 2008, 2009, 2011, 2012 SPRING 2009, 2012, 2013 (1).

ADVISING, MENTORING, COLLABORATIONS

Advising

Undergraduate advising 30 Students (2011-2017)

Honors Students, thesis advisor Michael Tosca (2006), Catherine Pomposi (2010)

Individualized Major, advisor , Adrienne Nguyen (2018-2019), Mackenzie Blanus (2018- 2019), Catherine Pomposi (2008-2010), Chelsea Mancini (2009-2011)

PhD Students, primary advisor Jeanne Thibeault (PhD, 2010), Cary Lynch (2014), Junya Wu

(2020 expected)

Graduate Committee member Rui Mei (MS,ENVE, 2008), Vincent Owanda (MS,NRE, 2010), Clement Alo (PhD,ENVE, 2008), Rui Mei (PhD,ENVE, 2012), Benjamin Franek (PhD,GEOG, 2013), Amir Erfanian (PhD, ENVE, 2017), Neil Oculi (2018)

Mentoring

Post-Doctoral Researchers, primary advisor Jeanne Thibeault (UConn, 2011-2014), Sara Rauscher (Columbia University, 2002-2005), Maisa Rojas (Columbia University, 2000-2002)

Summer Interns, primary advisor 4 students

Geography Internship, advisor 6 students (2011-2016).

Regional climate variability and change Filippo Giorgi (ICTP), Sara Rauscher (U Delaware), Michela Biasutti, Suzana Camargo, Alessandra Giannini (Columbia U), Maisa Rojas (U Chile), Brant Liebmann (NOAA/CDC), Ambarish Karmalkar (U Mass), Melissa Bukovsky, Rachel McCrary and Linda Mearns (NCAR), G. Wang, J. M. Thibeault (UConn).

Climate society interactions Christine Kirchhoff Kelly Lombardo, Scott Stephenson (UConn), Joe Barsugli (NOAA/CDC), Gillian Galford (U Vermont), Mathew Barlow (UMass).

INVITED TALKS, CONFERENCE ABSTRACTS

Seth, A., 2018: How has/will temperature and rainfall change in CT as the world warms?, *Geography Colloquium*, University of Connecticut, 26 Oct, Storrs, CT, INVITED.

Seth, A., 2017: Changing Northeast US Climate: Seasonality and Extremes, *Earth, Ocean Environment Seminar*, University of Delaware, 20 Oct, Newark, DE, INVITED.

Seth, A., K. Fernandes, S. J. Camargo, 2017: South American Monsoon: Recent droughts in the context of climate change, *AAG Annual Meeting*, 5-9 Apr, Boston, MA, INVITED.

Seth, A., 2015: Changing seasonality of monsoon precipitation in a warming world?, *NCAR IMAGE*, 24 June, Boulder, CO, INVITED.

Seth, A., S. Rauscher, M. Biasutti, A. Giannini, S. Camargo, M. Rojas, 2014: Annual Cycle Changes in Monsoons in a Warming Climate, *UCLA Department of Atmospheric Sciences*, 10 December, Los Angeles, CA, INVITED.

Seth, A., S. Rauscher, M. Biasutti, A. Giannini, S. Camargo, M. Rojas, 2014: Mechanisms for Annual Cycle Changes in Monsoons in a Warming Climate, *European Geosciences Union*, 28 Apr - 2 May, Vienna, Austria, INVITED.

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: 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., 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., 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., 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., 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, 2009: Projected precipitation shifts in the annual cycle of monsoons, *University of Massachusetts GeoSciences Seminar Series*, 13 November, Amherst, MA, INVITED.
- 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., 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., 2007: Implications of climate change for the Andean Highlands, *Environmental Engineering Seminar*, University of Connecticut, 27 April, Storrs, CT.
- 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., 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, Tieste, Italy, INVITED.
- 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., 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., 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: 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., 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.

CONTRIBUTED
TALKS,
CONFERENCE
ABSTRACTS

Seth, A., 2018: Monsoon Responses to Climate Change: A look at past warm climates *AGU Fall Meeting*, 10 - 14 Dec, Washington, D.C.

Seth, A., 2017: American Monsoons: Variability or Change? *AGU Fall Meeting*, 11 - 15 Dec, New Orleans, LA.

Seth, A., K. Fernandes, S. J. Camargo, 2016: South American Monsoon: Recent Droughts in the Context of Changing Global Circulation, *AGU Fall Meeting*, 12 - 16 Dec, San Francisco, CA.

Thibeault, J., C. Lynch, A. Seth, 2016: Northeast U.S. Mechanisms of Cold Season Hydro-climate Variability and Change in Observations and CMIP5 Models, *AGU Fall Meeting*, 12 - 16 Dec, San Francisco, CA.

Seth, A., M. Bukovsky, R. McCrary, and L. O. Mearns, 2016: Credibility of Climate Projections in the U.S. Southern Great Plains, *AAG Annual Meeting*, 29 Mar - 2 Apr, San Francisco, CA.

Rojas, M., Arias, P., Flores-Aqveveque, V., Seth, A. and Vuille, M., 2015: South American Monsoon Variability in the last Millenium CMIP5/PMIP3 simulations, *Monsoons & ITCZ: the annual cycle in the Holocene and the future*, 15-18 Sep, poster.

Seth, A., C. Lynch, and J. M Thibeault, 2014: Seasonal Transitions in the Next Climate Assessments, *AGU Fall Meeting*, 15-19 Dec, San Francisco, CA.

Seth, A., R. McCrary, J. Thibeault, 2014: Climate Model Credibility in Projections of Warm Season Precipitation in the US Great Plains, *AAG Annual Meeting*, 7-12 Apr, Tampa, FL.

Seth, A., J. Thibeault, 2014: Climate Processes in CMIP5: A Process-based Analysis of Warm Season Precipitation for Northeast North America , *AMS Annual Meeting*, 2-6 Feb, Atlanta, GA.

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

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., 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 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., 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., 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., 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., 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, *Eigth International Conference on Southern Hemisphere Meteorology and Oceanography*, 24-28 April, Foz do Iguacú, 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, 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. 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: 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., 1997: Remote Vs Local Control of Extreme Precipitation Events: A Regional Climate Model Study, *Atmospheric Sciences*, University of Arizona, Tucson, AZ, October.
- 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.

SCIENTIFIC
OUTREACH

- Seth, A., 1994: Atmospheric Response to Heterogeneous Land Surface Thermal Forcing: Implications for Climate, *AGU Fall Meeting*, San Francisco, CA.
- 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.
- Seth, A., 2019: Global Warming: An update for Connecticut, *Climate Change Cafe*, University of Connecticut, 13 Mar, Storrs, CT, INVITED.
- Seth, A., 2019: Introduction to Climate Change Science, *University of Connecticut Law School*, 8 April, Hartford, CT, INVITED.
- Seth, A., 2018: Understanding changes in New England weather extremes, *New England Power Pool (NEPOOL) summer meeting*, 27 June, Westbrook, CT, INVITED.
- Seth, A., 2018: Panelist, Frontline Conversations: Gender and Climate Justice, UConn Metanoia on the Environment, 16 Apr, Storrs, CT, INVITED
- Seth, A., 2018: Preparing for Extremes, *CT Fire Chiefs and Emergency Managers Association*, 14 February, Guilford, CT, INVITED.
- Seth, A., 2018: Update on Climate Change Science, *University of Connecticut Law School*, 13 February, Hartford, CT, INVITED.
- Seth, A., 2017: Moderator, Panel 1 - Setting the Stage: Science Politics and Economic Development at The 22nd Gallivan Conference - Municipal Climate Policy: Local Solutions for a Global Problem , *University of Connecticut Law School*, 3 Mar, Hartford, CT, INVITED.
- Seth, A., 2017: Climate Change Science, *University of Connecticut Law School*, 21 February, Hartford, CT, INVITED.
- Seth, A., 2016: Climate Change Science: What we know, what we don't know, and why, *University of Connecticut Law School*, 8 February, Hartford, CT, INVITED.
- Seth, A., 2015: Global Warming: How Did We Get Here?, *India International Center*, 13 April, New Delhi, INDIA, INVITED.
- Seth, A., 2015: Understanding the IPCC 5th Assessment Report, *University of Connecticut Law School*, 16 February, Hartford, CT, INVITED.
- Seth, A., 2014: The Conversation We Need to Have, *UConn Today*, 14 January, Storrs, CT, <http://today.uconn.edu/blog/2014/01/global-warming-the-conversation-we-need-to-have/>.
- Seth, A., 2014: Carbon Nation, Film Screening and Panel Discussion, *University of Connecticut, CIMA3 event*, 2 April, Storrs, CT, Moderator. Panelists: Carol Atkinson-Palombo, Norman Garrick, Richard Miller, Kathleen Segerson.
- Seth, A., and R. Miller, 2014: Climate Change Discussion on The Wayne Norman Show, *WILI Radio*, 25 February, Willimantic, CT.
- Seth, A., 2014: Introduction to the IPCC 5th Assessment Report, *University of Connecticut Law School*, 10 February, Hartford, CT, INVITED.
- Seth, A., 2013: Global Forum: International perspectives on Climate Change, *UConn Global House*, 12 November, Storrs, CT, Panelist, with Mark Boyer and Carol Atkinson-Palombo.
- Seth, A., 2013: Climate Change the Scientific Basis, *University of Connecticut Law School*, 4 February, Hartford, CT, INVITED.
- Seth, A., 2012: Climate Change Where We Live, *CT State Museum of Natural History*, 4 November, Storrs, 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.

PROFESSIONAL
ACTIVITIES

Review Panel NSF PREEVENTS, panel, 2019, Washington, D.C.

Session Organizer, Chair Understanding Regional Climate Processes and Projections, AAG Annual Meeting, San Francisco, CA, Apr 2017.

Ad-Hoc Review Panel NSF PREEVENTS Precipitation Extremes, virtual panel, 10 Jan 2017

Ad-Hoc Review Panel DOE/BER Climate and Environmental Sciences Division, Washington, DC, 1-2 June 2016

Session Organizer, Chair High Resolution Climate Projections: Towards understanding regional climates, AAG Annual Meeting, San Francisco, CA, Apr 2016.

Visiting Scientist National Center for Atmospheric Research, IMAGE, Boulder, CO, June-July 2015.

Ad-Hoc Review Panel NOAA Climate Program Office, Silver Spring, MD, 12-14 January 2015, Fall 2007, Fall 1998

Participant Coupled Model Intercomparison (CMIP-6) Workshop, NOAA Center for Weather and Climate Prediction (NCWCP), College Park, MD, 9-10 February, 2015

Member NOAA Modeling Analysis Predictions and Projections (MAPP) Program CMIP5 Task Force, Jan 2012-2015

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

Session Organizer, Chair Geographical Dimensions of Regional Climate Change, AAG Annual Meeting, Apr 2011.

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

Ad-Hoc Review Panel DOE Regional Modeling, Spring 2009

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

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

Professional Memberships AAAS, AMS, AGU, AAG, EGU.

Proposal Reviewer NOAA, NASA, NSF, DOE.

Manuscript Reviewer

Wiley Interdisciplinary Reviews (WIREs Climate Change) (1),

Nature Climate Change (3),

Journal of Climate (22),

Journal of Hydrometeorology (2),

Monthly Weather Review (3),

Bulletin of the AMS (3),

Journal of Geophysical Research (8),

Geophysical Research Letters (16),

Climate Dynamics (17),

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).

INSTITUTIONAL
SERVICE

University of Connecticut

Member University Senate, Representative to Board of Trustees, Buildings, Grounds and Environment Committee, 2018–present.

Member University Graduate Faculty Council, 2018–present.

Member University Senate, Ad-Hoc Committee on Environmental Literacy, Spring 2018.

Director of Applied Research Connecticut Institute for Resilience and Climate Adaptation (CIRCA), Executive Committee 2016–present.

Executive Committee UConn Atmospheric Sciences Group, 2008–present. *Chair*, 2015–present.

Member University Senate, elected for 2016-2019 term.

co-Chair GEOC Information Literacy subcommittee 2016–2018. *Member at Large* University Environmental Policy Advisory Council (EPAC), 2009–present.

Advisory Committee Center for Environmental Sciences and Engineering, (CESE), 2010–present.

Member Vice Provost for Academic Affairs (VPAA) Search Committee S2017.

Reviewer Provost Academic Vision Call for Proposals 2015–16.

Advisory Committee Environmental Science Program, 2008 - 2014.

Organizing Committee Climate Impacts, Mitigation & Adaptation (CIMA3), 2013–2014.

Organizing Committee Edwin Way Teale Lecture Series, 2009–2014. Host to Andrew Revkin 2010, and David Archer 2012.

Review Panel Provost General Education Course Grant Competition, 2009–2010.

Member UConn Climate Action Task Force, 2008–2009.

University of Connecticut Department of Geography

Graduate Coordinator Chair, Graduate Committee, 2018-present.

Member Geography Tenure Track GIS Search Committee, 2018-2019. Successful hire: Peter Chen.

Member PTR Committee, 2012-present .

Member Geography Head Search Committee, 2018. Successful hire: Chuanrong Zhang.

Chair Ad-Hoc Geography Hiring Plan Committee , S2017.

Member Graduate Committee, 2008-2011, 2016-18.

Member Curriculum Committee, 2015-16.

Chair Geography Head Search Committee, 2012-13. Successful hire: Ken Foote.

Graduate Coordinator Chair, Graduate Committee, 2011-2013.

Member Geography/Geosciences Search Committee, 2009-10. Successful hire: William Ouimet.

Columbia University, IRI

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.

PROCEEDINGS, TECHNICAL REPORTS

Seth, A., Wang, G., Kirchoff, C., Lombardo, K., Stephenson, S. Anyah, R., Wu. J. (2019). Connecticut Physical Climate Science Assessment Report (CT-PCSAR), *UConn CIRCA Technical Report*, pp. 72.

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. Dilley, 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.