

- 2013 *Contributing author*, Intergovernmental Panel on Climate Change Fifth Assessment Report, Working Group I
- 2007-present *Reviewer*: NSF proposals, scientific journals (>9 journals)

Mentoring Experience

- 2014-present Graduate students: L. Parsons, G. Loope, N. Buckle (U. Arizona)
- 2015 Undergraduate students: T. Conroy (U. Hawaii), J. McCoy (U. Michigan)

Teaching and Outreach Experience

- 2014-2016 *Instructor*: Climate Science Teacher Institute professional development program for Pacific Islands middle/high school teachers
- 2010-2011 *Substitute lecturer*: University of Colorado climate and oceanography courses
- 2007-2008 *Teaching assistant*: University of Colorado
- 2003-2004 *Presenter*: Charles Hayden Planetarium, Boston Museum of Science
- 2000-2003 *Teaching assistant*: Wesleyan University undergraduate astronomy courses

Honors and Awards

- 2011 WCRP Open Science Conference, outstanding student presentation award
- 2011 Sigma Xi, University of Colorado chapter
- 2009 University of Colorado, outstanding student presentation award
- 2005 NASA Public Service Group Achievement Award
- 2003 Connecticut State Congress citation for academic achievement (M.A. recipient, age 19)
- 2000 Connecticut State Congress citation for academic achievement (B.A. recipient, age 16)

Collaborators

T. Ault (Cornell), S. Bates (NCAR), E. Brady (NCAR), A. Capotondi (NOAA ESRL), J. Carilli (UMass), Y. Chikamoto (UH), J. Cole (U. Arizona), K. Cobb (Georgia Tech), S. Dee (Brown), C. Deser (NCAR), E. Di Lorenzo (Georgia Tech), J. Fasullo (NCAR), B. Fox-Kemper (Brown), C. Gao (Zhejiang U.), M. Jochum (NBI), H. McGregor (UOW), G. Meehl (NCAR), M. Merrifield (UH), R. Neale (NCAR), D. Noone (OSU), J. Nusbaumer (CU), B. Otto-Bliesner (NCAR), J. Overpeck (U. Arizona), S. Phipps (UNSW), B. Powell (UH), B. Rajagopalan (CU), J. Smerdon (LDEO), A. Subramanian (Scripps), A. Timmermann (UH)

Technical Skills

Climate, atmosphere, and ocean modeling; multivariate statistics; Fortran; Matlab; IDL; R; NCL; HTML; Perl; Bash/csh; Python

Presentations

Seminars

- 2016 Earth Research Institute, University of California at Santa Barbara
- 2016 Department of Atmospheric & Oceanic Sciences, McGill University
- 2016 Climate and Global Dynamics division, National Center for Atmospheric Research

2015 Institute for Arctic and Alpine Research, University of Colorado
 2014 Department of Geosciences, University of Arizona
 2014 University of Colorado at Boulder/CIRES
 2013 NOAA Geophysical Fluid Dynamics Laboratory
 2013 Georgia Institute of Technology
 2012 Scripps Institute of Oceanography
 2012 International Pacific Research Center, University of Hawaii
 2011 Climate Change Research Centre, University of New South Wales
 2010 Climate and Global Dynamics division, National Center for Atmospheric Research
 2010 Division of Ocean and Climate Physics, Lamont-Doherty Earth Observatory

Conference Presentations

2016 CLIVAR Open Science Conference, Qingdao, China
 2016 PICES-2016 25th Anniversary Meeting (*invited*), San Diego, CA
 2016 Community Earth System Model Workshop, Breckenridge, CO
 2016 PAGES 2K-PMIP3 Workshop on Hydroclimate (*invited*), Palisades, NY
 2016 American Geophysical Union Ocean Sciences Meeting, New Orleans, LA
 2015 American Geophysical Union Fall Meeting (*invited*), San Francisco, CA
 2015 Community Earth System Model Workshop, Breckenridge, CO
 2015 Gordon Research Conference on Coastal Ocean Modeling (*invited*), Biddeford, ME
 2015 European Geophysical Union Fall Meeting, Vienna, Austria
 2014 Antarctic Climate of the 21st Century (*invited*), San Francisco, CA
 2014 European Geophysical Union Fall Meeting, Vienna, Austria (*invited; declined*)
 2013 American Geophysical Union Fall Meeting (*invited*), San Francisco, CA
 2013 CLIVAR Pacific panel workshop, "Evaluation of ENSO Processes in Climate Models", Hobart, Australia
 2012 Physical Oceanography Dissertation Symposium (PODS VII), Lihue, HI
 2012 European Science Foundation workshop "Modes of Variability in the Climate System", Obergurgl, Austria
 2012 American Geophysical Union Ocean Sciences Meeting, Salt Lake City, UT
 (*Winner: Outstanding Scientific Presentation)
 2011 World Climate Research Programme Open Science Conference, Denver, CO
 (*Winner: Outstanding Scientific Presentation)
 2011 Pattullo conference (Mentoring Women in Physical Oceanography), Warrenton, VA
 2011 Ocean Model Working Group, NCAR CESM workshop, Breckenridge, CO
 2010 European Geophysical Union meeting, Vienna, Austria
 2009 CCSM Ocean Model Working Group meeting, Boulder, CO
 2008 CIRES graduate student seminar series

(*Winner: best student presentation in series)

Refereed Publications

- [22] Dassie, E. & **MARPA Project Members** 2016, "Save Our Marine Annually-Resolved Proxy Archives", *EOS*, accepted
- [21] **Stevenson, S.**, Otto-Bliesner, B., Fasullo, J., Tomas, R., & Gao, C. 2016, "The Role of Eruption Season in Reconciling Model and Proxy Responses to Tropical Volcanism", *PNAS*, in revision
- [20] **Stevenson, S.**, Capotondi, A., Fasullo, J. & Otto-Bliesner, B., 2016, "Forced Changes to 20th Century ENSO Diversity in a Last Millennium Context", *Climate Dynamics* ENSO diversity special collection, in revision
- [19] Fasullo, J., Otto-Bliesner, B., & **Stevenson, S.** 2016, "ENSO's Changing Influence on Heat Waves and Wildfire In a Warming Climate", *Nature Climate Change*, in revision
- [18] **Stevenson, S.**, Otto-Bliesner, B., Fasullo, J. & Brady, E. 2016, "El Nino-Like Hydroclimate Responses to Last Millennium Volcanic Eruptions", *Journal of Climate*, 29, 2907-2921
- [17] **Stevenson, S.**, Powell, B., Cobb, K., Merrifield, M., Nusbaumer, J., & Noone, D. 2015, "Characterizing Seawater Oxygen Isotopic Variability in a Regional Ocean Modeling Framework: Implications for Coral Proxy Records", *Paleoceanography*, 30 (11), 1573-1593
- [16] Otto-Bliesner, B., Brady, E., Fasullo, J., Jahn, A., Landrum, L., Rosenbloom, N., **Stevenson, S.**, Fasullo, J., Mai, A. & Strand, G. 2015 "Climate Variability and Change since 850 C.E.: An Ensemble Approach with the Community Earth System Model (CESM)", *BAMS*, 97 (5), 735-754, doi:10.1175/BAMS-D-14-00233.1
- [15] Bracegirdle, T. J., Bertler, J., Carleton, A. M., Ding, Q., Fogwill, J., Fyfe, J. C., Hellmer, H., Karpechko, A. Y., Kushara, K., Larour, E., Mayewski, P. A., Meier, W. N., Polvani, L. M., Russell, J. M., **Stevenson, S.**, Turner, J., van Wessem, J. M., & Wainer, I. 2015, "A process-based approach to climate model evaluation for Antarctica and the Southern Ocean", *BAMS*, 92, ES23-ES26, doi:10.1175/BAMS-D-15-00108.1
- [14] Carilli, J., McGregor, H.V., Gaudry, J., **Stevenson, S.**, Donner, S., Gagan, M., Wong, H. & Fink, D., 2015 "Response to comment: Geochemical records from equatorial Pacific corals suggest a weakening Walker circulation", *Paleoceanography*, 29 (11), 1031-1045
- [13] Chikamoto, Y., Timmermann, A., **Stevenson, S.** & Langford, S. 2015, "Decadal predictability of soil water, vegetation, and wildfire frequency over North America", *Climate Dynamics*
- [12] **Stevenson, S.**, Timmermann, A., Chikamoto, Y. & Langford, S. 2015, "Stochastically Generated North American Megadroughts", *Journal of Climate*, 28 (5), 1865-1880
- [11] Carilli, J., McGregor, H.V., Gaudry, J., **Stevenson, S.**, Donner, S., Gagan, M., Wong, H. & Fink, D., 2014 "Geochemical records from equatorial Pacific corals suggest a weakening Walker circulation", *Paleoceanography*, 29 (11), 1031-1045
- [10] Langford, S., **Stevenson, S.**, & Noone, D. 2014, "Analysis of Low-Frequency Precipitation Variability over North America in the CMIP5 20th Century Simulations", *Journal of*

- Climate*, 27, 2735-2756
- [9] Haney, S., Bachman, S., Cooper, B., Haney, S., Kupper, S., McCaffrey, K., van Roekel, L., **Stevenson, S.**, Webb, A., Fox-Kemper, B. and Ferrari, R. 2013: "Hurricane wake restratification by 1, 2 and 3-dimensional processes", *Journal of Marine Research*, 70(6), 824-850
- [8] **Stevenson, S.**, McGregor, H.V., Phipps, S. & Fox-Kemper, B. 2013, "Quantifying Errors in Coral-Based ENSO Estimates: Towards Improved Forward Modeling of $\delta^{18}\text{O}$ ", *Paleoceanography*, 28, 1-17
- [7] Phipps, S., McGregor, H. V., Gergis, J., Gallant, A., Neukom, R., **Stevenson, S.**, Ackerley, D., Brown, J., Fischer, M., Lorrey, D., & van Ommen, T. 2013, "Palaeoclimate data-model integration: Concepts and application to the climate of the past 1,500 years", *Journal of Climate* Aus2K special issue, 26, 6915-6936.
- [6] **Stevenson, S.**, Rajagopalan, B., & Fox-Kemper, B. 2013, "Generalized Linear Modeling of the El Niño/Southern Oscillation with Application to Seasonal Forecasting and Climate Change Projections", *Journal of Geophysical Research-Oceans*, 118 (8), 3764-3781
- [5] **Stevenson, S.**, Fox-Kemper, B. & Jochum, M.: 2012, "Understanding the ENSO-CO₂ Link Using Stabilized Climate Simulations", *Journal of Climate*, 25 (22), 7917-7936
- [4] Bates, S. C., Fox-Kemper, B., Jayne, S., Large, W. G., **Stevenson, S.**, & Yeager, S. G.: 2012, "Seasonal to interannual variability in air-sea fluxes and the upper-ocean", *Journal of Climate* CCSM4 special issue, 25 (22), 7781-7801
- [3] **Stevenson, S.** 2012, "Significant Changes to ENSO Strength and Impacts in the 21st Century: Results from CMIP5", *Geophysical Research Letters*, 39, L17703
- [2] **Stevenson, S.**, Fox-Kemper, B., Jochum, M., Neale, R., Deser, C. & Meehl, G. 2012, "Will There Be A Significant Change to El Niño in the 21st Century?", *Journal of Climate* CCSM4 special issue, 25, 2129-2145 (doi:10.1175/JCLI-D-11-00252.1)
- [1] **Stevenson, S.**, Fox-Kemper, B., Jochum, M., Rajagopalan, B. & Yeager, S.: 2010, "ENSO Model Validation Using Wavelet Probability Analysis", *Journal of Climate*, 23, 5540-5547