

Curriculum Vitae

Colin P. Kelley, PhD

colinkelley@mac.com

828.335.4680

Professional preparation

Ph.D., Climate and Earth and Environmental Science, Columbia University, 2014

M.A., Climate and Society, Columbia University, 2008

B.S., Construction Science and Management, Clemson University, 1994

Appointments

Graduate Faculty Affiliate and Adjunct Professor, Department of Geography and Planning,
Appalachian State University, Boone, NC, 2021-present

Associate Research Scientist, International Research Institute for Climate and Society (IRI), The
Earth Institute of Columbia University, 61 Route 9W, Palisades, NY, 2016-2020

Senior Research Fellow, Center for Climate and Security, Washington DC 2017- present

Associate Editor for Climate Services, *Frontiers in Climate*, 2019-present

Postdoctoral Fellow, Postdocs Applying Climate Expertise, University of California Santa Barbara,
2014-2015

Publications

Shukla, S., F. Davenport, K. Grace, S. Tinni, A. Ali, A. Adoum, B. Mamane, C. Kelley, D. McEvoy,
G.J. Husak, M. Mahamane, (2022 December). Using subseasonal climate variability at the
community-level to advance place-based early warning systems in West Africa. In Fall Meeting
2022. AGU.

Montes, C., N. Acharya, M.A. Stiller-Reeve, C. Kelley, S.M.Q. Hassan, (2021) Interannual
variability of monsoon onset and withdrawal in Bangladesh, *Atmospheric Science Letters*

Kelley, C.P., N. Acharya, C. Montes, T. Krupnik, Md. A. Mannan, S.M.Q. Hassan, (2020) Exploring
the predictability of within-season rainfall statistics of the Bangladesh monsoon using North
American Multimodel Ensemble outputs, *Theoretical and Applied Climatology*

Giannini, A., A. Abdou, C. Kelley, B. Lamptey, B. Minoungou, O. Ndiaye, (2020) Advances in the
lead time of Sahel rainfall prediction with the North American Multi-Model Ensemble,
Geophysical Research Letters

Seager, R., H. Liu, Y. Kushnir, T. Osborn, I. Simpson, C. Kelley, J. Nakamura, (2020) Mechanisms
of winter precipitation variability in the European-Mediterranean region associated with the
North Atlantic Oscillation, *Journal of Climate*

Gleick, P., S. Lewandowsky, C. Kelley, (2018) Climate and Conflict: don't oversimplify, *Nature*,
555, 587, doi: 10.1038/d41586-018-03794-1

Kelley, C.P., S. Mohtadi, M.A. Cane, R. Seager, Y. Kushnir, (2017) Commentary on the Syria
case: Climate as a contributing factor, *Political Geography*,
<http://dx.doi.org/10.1016/j.polgeo.2017.06.013>

Kelley, C.P., S. Mohtadi, M.A. Cane, R. Seager, Y. Kushnir, (2015) Climate change in the Fertile
Crescent and implications of the recent Syrian drought, *Proceedings of the National Academy
of Sciences*, 112(11), 3241e3246

Hoell, A., S. Shukla, M. Barlow, F. Cannon, C. Kelley, C. Funk, (2015) The forcing of monthly
precipitation variability over Southwest Asia during the Boreal cold season, *Journal of Climate*
28(18):7038-7045. doi: [10.1175/JCLI-D-14-00757.1](https://doi.org/10.1175/JCLI-D-14-00757.1)

Seager, R., H. Liu, N. Henderson, I. Simpson, C. Kelley, T. Shaw, Y. Kushnir, M. Ting, (2014)
Causes of increasing aridification of the Mediterranean region in response to rising greenhouse
gases. *Journal of Climate* 27, 4655–4676 (2014).

Kelley C.P., M. Ting, R. Seager, Y. Kushnir, (2012) Mediterranean precipitation climatology, seasonal cycle, and trend as simulated by CMIP5, *Geophysical Research Letters*, 39(29):L21703.

Kelley C.P., M. Ting, R. Seager, Y. Kushnir, (2011) The relative contributions of radiative forcing and internal climate variability to the late 20th century winter drying of the Mediterranean region, *Climate Dynamics* 38(9-10):2001–2015.

Recent teaching, trainings and workshops

Mentor, Climate and Society Capstone project, Columbia University, 2020

Instructor, facilitator and co-developer, short course on aquaculture, Bangladesh Academy for Climate Services, Dhaka, Oct. 2019

Guest lecturer, Regional Climate course, Columbia University's Climate and Society curriculum, Feb. 2019

Presenter, Forecast-based Financing workshop in Lilongwe, Malawi, Nov. 2018

Instructor, facilitator and co-developer, inaugural short course, newly founded Bangladesh Academy for Climate Services, Dhaka, Oct. 2018

Guest lecturer, Regional Climate course, Columbia University's Climate and Society curriculum, Apr. 2018

Trainer, Climate Services for Resilient Development workshop and training, Bangladesh Meteorology Department and Bangladesh Department of Agricultural Extension, in partnership with CIMMYT, hosted by IRI, Mar.-Apr. 2018

Recent invited talks, presentations and panel discussions

Potsdam Institute for Climate Impact Research and the Berghof Foundation, "Climate Change Impacts on Conflict, from Acknowledgement to Action," Feb. 2021

Cambridge Middle East and North Africa Forum, Online Event, "Burning Sand: MENA and Climate Change," Sep. 2020

Climate Hazards Center, University of California Santa Barbara, Oct. 2019

Inaugural International Conference on Environmental Peacebuilding, University of California – Irvine, Oct. 2019

Columbia Global Center in Amman, Jordan, "Bridging Science and Policy: Water Scarcity, Climate Change and Adaptation in the Middle East," Jul. 2019

The Arab Gulf States Institute in Washington, DC, on "Tackling Climate Change in the GCC: Are the Arab Gulf States Doing Enough," Dec. 2018

AGU session titled "How Can Global Change Research Inform National Security Decision-Making?" Dec. 2018

Inaugural speaker, University of Pittsburgh Climate Seminar Series, Apr. 2018

Working and advisory groups

Co-developer of the Bangladesh Academy of Climate Services short course series

Participant of the Climate and Security Advisory Group (CSAG), a bipartisan group of military, National security and foreign policy experts chaired by the Center for Climate and Security and the George Washington University's Elliot School of International Affairs, 2018.

Co-signatory of the resulting report, a roadmap of recommendations titled "A Responsibility to Prepare: Strengthening National and Homeland Security in the Face of a Changing Climate" (2018).

Externally funded grants

Active

NASA SERVIR West Africa: Co-PI/Institutional PI, Dec. 2019 – Nov. 2022

Awards and recognition

“Climate change in the Fertile Crescent and implications of the recent Syrian drought” has been cited over one thousand times in the peer-reviewed literature, and is in the top 5% of all research outputs ranked by Altmetric, with respect to media and public attention.

Video profile, Columbia University Earth Institute’s State of the Planet series, “Food and water vulnerability in a changing climate,” April 2017