

# ZACK GUIDO | CURRICULUM VITAE

University of Arizona, 1064 E. Lowell Street, Tucson, AZ 85721

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## EDUCATION

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- 2010-15 **Ph.D. UNIVERSITY OF ARIZONA**, School of Natural Resources and Environment, Tucson, AZ  
*Dissertation:* Informing Climate Adaptation: Climate Impacts on Glacial Systems and the Role of Information Brokering in Climate Services  
*Committee members:* Shirley Papuga (chair), Gregg Garfin, Jennifer McIntosh, Jim Buizer, Joellen Russell
- 2006 **M.Sc. UNIVERSITY OF COLORADO**, Geoscience, Boulder, CO  
*Thesis:* Climate forcing on the evolution of valley glaciers in the San Juan Mountains, Colorado
- 2000 **B.A. LAFAYETTE COLLEGE**, Geoscience, Easton, PA

## RESEARCH INTERESTS AND EXPERTISE

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Climate impacts on water systems and environmental resources  
Human-environment interactions, human dimensions of global change  
Climate adaptation, with a focus on climate services, transdisciplinary science, and science communication

## APPOINTMENTS

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- 2018-p RESEARCH FACULTY, School of Natural Resources and Environment, Tucson, Arizona
- 2013-p PROGRAM MANAGER AND RESEARCH SCIENTIST, Institute of the Environment, Tucson, Arizona
- 2013-p RESEARCH AFFILIATE, Climate Assessment for the Southwest (CLIMAS), Tucson, Arizona
- 2008-13 ASSOCIATE STAFF SCIENTIST, CLIMAS, Univ. of Arizona, Tucson, Arizona
- 2005-p CO-DIRECTOR & CO-FOUNDER, Terra Resource Development International (501c3), Laguna Beach, CA
- 2007-08 HYDROLOGIST, Errol L. Montgomery and Associates, Tucson, Arizona
- 2004-06 GRADUATE RESEARCH ASSISTANT, Institute for Arctic and Alpine Research, Univ. of Colorado, Boulder, CO
- 2000-03 PEACE CORPS, Bolivia, South America

## ACADEMIC PUBLICATIONS

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- Year (#) PEER REVIEW: PUBLISHED
- 2020 (18) Z. Guido, Knudson, C., Finan T., Madajewicz, M., and K. Rhiney. Shocks and Cherries: The Production of Vulnerability Among Smallholder Coffee Farmers in Jamaica. *World Development*.
- 2020 (17) N. Krell, Giroux, S. A., Guido, Z., Hannah, C., Lopus, S. E., Caylor, K. K., Evans, T. Use of mobile phone services for agricultural decision-making in Kenya, *Climate and Development*.
- 2020 (16) A. K. Gerlak, Mason, S. J., Daly, M., Liverman, D., Guido, Z., Soares, M. B., ... Jacobs, K. The Gnat and the Bull: Do Climate Outlook Forums Make a Difference? *Bulletin of the American Meteorological Society*. <https://doi.org/10.1175/bams-d-19-0008.1>

- 2020 (15) K. Uhlman, Eastoe, C., Guido Z., Crimmins, M.A., Purkey-Deller, A., Eden, S. Assessing the vulnerability of an aquifer to climate variability through community participation in Arivaca, Arizona, *Journal of Contemporary Water Research and Education*.
- 2019 (14) C. Knudson and **Guido Z.** The missing middle of climate services: Layering multiway, two-way, and one-way modes of communicating seasonal climate forecasts. *Climatic Change*.
- 2019 (13) **Z. Guido**, Knudson C., and Campbell, D. Knowing the Context: Can Climate Services Be Effectual for Small Landholding Farmers? *Climate and Development*.
- 2019 (12) Mahon, R., Greene, C., Cox, S. A., Guido, Z., Gerlak, A. K., Petrie, J. A., ... Farrell, D. 2019: Fit for purpose? Transforming National Meteorological and Hydrological Services into National Climate Service Centers. *Climate Services*.
- 2018 (11) Guido, Z., Finan, T., Rhiney, K., Madajewicz, M., ..., 2018. The stresses and dynamics of smallholder coffee systems in Jamaica's Blue Mountains: a case for the potential role of climate services. *Clim. Change* 147, 253–266. <https://doi.org/10.1007/s10584-017-2125-7>
- 2018 (10) A. K. Gerlak, **Guido, Z.**, Vaughan, C., Rountree, V., Greene, G., Liverman, D., Trotman, A., Mahon, R., Cox, S., Mason, S.J., Jacobs, K.L., Buizer, J.L., Van Meerbeeck, C., and Baethgen, W.E. 2017: Progress and challenges of the Caribbean Climate Outlook Forum: Building a framework for process-oriented evaluation of Regional Climate Outlook Forums: *Weather, Climate and Society*.
- 2017 (9) B. S. Underwood, **Guido Z.**, Gudipudi, P., and Feinberg, Y. 2017: Increased Costs to U.S. Pavement Infrastructure from Future Temperature Rise. *Nature Climate Change*.
- 2016 (8) **Z. Guido**, McIntosh, J., Papuga, S., and Meixner, T. 2016: Seasonal glacial meltwater contributions to surface water in the Bolivian Andes: A case study using environmental tracers. *Journal of Hydrology: Regional Studies*.
- 2016 (7) **Z. Guido**, Rountree, V., Greene, C., Gerlak, A., and Trotman, A. 2016: Connecting Climate Information Producers and Users: Boundary Organization, Knowledge Networks, and Information Brokers at Caribbean Climate Outlook Forums. *Weather, Climate and Society*.
- 2016 (6) A. M. Meadow, **Guido, Z.** Crimmins, C., and McCleod, J. 2016: From Principles to Action: Applying the National Research Council's Principles for Effective Decision Support to the Federal Emergency Management Agency's Watch Office, *Climate Services*.
- 2015 (5) A. M. Meadow, Ferguson, D. B., **Guido, Z.**, Horangic, A., Owen, G., and Wall, T. 2015: Moving Toward the Deliberate Co-Production of Climate Science Knowledge, *Weather, Climate and Society*.
- 2013 (4) **Z. Guido**, Hill, D., Crimmins, M., and Ferguson, D., 2013: Informing decisions with a climate synthesis product: implications for regional climate services. *Weather, Climate and Society*.
- 2012 (3) J. S. Kargel, Alho, P., Buytaert, W., CÈlleri, R., Cogley, J. G., Dussaillant, A., **Guido, Z.**, Haerberli, W., Harrison, S., Leonard, G., Maxwell, A., Meier, C., Poveda, G., Reid, B., Reynolds, J., Rodríguez, C. A. P., Romero, H., and Schneider, J. 2012: Glaciers in Patagonia: Controversy and prospects. *Eos Trans. AGU*, v. 93.
- 2009 (2) D. J. Ward, Anderson, R.S, **Guido, Z.**, and Briner, J.P. 2009: Numerical modeling of cosmogenic deglaciation records, Front Range and San Juan Mountains, Colorado. *Journal of Geophy Res*, 114.
- 2007 (1) **Z. Guido**, Ward, D. J. and Anderson, R. S. 2007: Pacing the post-LGM demise of the Animas Valley Glacier and the San Juan Mountain Icecap, Colorado. *Geol* 35 (8): 739-742.

PROFESSIONAL REPORTS

2017 (8) A. Gerlak, **Guido, Z.** and Knudson, C. 2017: The Mid-Term Review of the Global Framework for Climate Services, World Meteorological Organization. pp.68 (<http://bit.ly/2BFCUXC>).

2016 (7) T. Rahman, Buizer, J., and **Guido, Z.** 2016: The Economic Impact of Seasonal Drought Forecast Information Service in Jamaica, 2014-2015. University of Arizona. pp. 62 (<http://bit.ly/2oCN8n1>).

2014 (6) **Z. Guido**, Buizer, J., Finan, T., Gavin, S., L., Gerlak, A., Goddard, Greene, C., Johnson, R., Liverman, D., Mason, S., Muñoz, A. (2014). An International Research and Applications Project (IRAP) Caribbean Workshop Report: Integrating Climate Information and Decision Processes for Regional Climate Resilience. University of Arizona Institute of the Environment and Columbia University International Research Institute for Climate and Society. pp. 48 (<http://bit.ly/2p5SZCS>).

2014 (5) D. B., Ferguson, Thomas, R., **Guido, Z.**, Ethen, L., Zucker, C., Chorover, G., and Johnson, R. 2014. Planning for Change in Southern Arizona: A report from the Southern Arizona Regional Climate Summit for Municipal Leaders. Tucson, AZ: Climate Assessment for the Southwest (<http://bit.ly/2pnZZrq>).

2013 (4) **Z. Guido**, 2013: Drought on the Rio Grande, *Rural Connections*, 7(1): 7–10 (<http://bit.ly/2pobU8Q>).

2012 (3) D. Ferguson and **Guido, Z.**, 2012: Communicating Climate Variability: La Niña Drought Tracker. Climate Service Partnership, Climate Service Case studies (<http://bit.ly/2pobU8Q>).

2010 (2) **Z. Guido**, and Hartman, H., 2010. The interface of science and policy: an IAI-NCAR Colloquium provides perspective. Inter-American Institute for Global Change (<http://bit.ly/2pkccR1>).

2009 (1) **Z. Guido**, Ferguson, D.B, and Garfin, G., 2009. Putting Knowledge into Action: Tapping the Institutional Knowledge of U.S. Fish and Wildlife Service Regions 2 and 8 to Address Climate Change. Tucson, AZ: Climate Assessment for the Southwest (<http://bit.ly/2oz3BqE>).

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**GENERAL PUBLIC SCIENCE COMMUNICATION ACTIVITIES: 90 PODCASTS; 36 FEATURE ARTICLES**

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2012-p Host, Southwest Climate Podcast (<http://www.climas.arizona.edu/media/podcasts>)

2012-13 Writer, ClimateWatch Magazine, an on-line magazine published by NOAA ([www.climate.gov](http://www.climate.gov))

2008-13 Science editor, Southwest Climate Outlook—a monthly, e-publication; **published 36** feature articles between 2008–2012 ([www.climas.arizona.edu/swco](http://www.climas.arizona.edu/swco))

2009-13 Writer, Southwest Climate Change Network—a website that improves climate literacy in the Southwest ([www.swclimatechangenetwork.org](http://www.swclimatechangenetwork.org))

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**SERVICE AND OUTREACH**

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2017-p Climate Science Contributor, Bill Buckmaster Show, Daily Radio Program, Tucson, Arizona. <http://www.buckmastershow.com/contributors/>

2018-p Faculty Member and Advisory Committee, Graduate Interdisciplinary Program for Applied Intercultural Arts Research

2019-p Organizing Committee, 18<sup>th</sup> Annual Climate Predications and Applications Workshop, Phoenix Arizona

2019-p Organizing Committee, Rise Conference, *Transforming University Engagement In Pre- and Post-Disaster Environments: Lessons from Puerto Rico*, National Council for Science and the Environment, <https://www.albany.edu/rise2019/home.html>

2019-p | Review Editor, Frontiers in Climate (<https://www.frontiersin.org/journals/climate/sections/climate-services#editorial-board>)

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#### TEACHING AND MENTORING

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2019 | TEACHER: Geography 230, “Our Changing Climate;” 59 Students. 3 credit hours  
2006 | TEACHER: Geology 101 Introduction to Geological Principals; lecture and lab, Univ. of Colorado  
2012-p | ADVISOR: 6 U.S. graduate students, 2 graduate students, and 1 Jamaican Ph.D. candidate

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#### SKILLS & HOBBIES

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Language | Advanced Spanish  
Software | Matlab; Arc GIS; SPSS; Stata Adobe Illustrator, Lightroom, and Photoshop; Microsoft Office  
Hobbies | Cycling, rock climbing, photography, adventure travel, drinking coffee