

## **GIGI OWEN (Bonnie Jean)**

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Climate Assessment for the Southwest, Univ. of Arizona, ENR2, 1064 E Lowell St., Tucson, AZ 85721

### **RESEARCH INTERESTS**

climate change adaptation; political ecology; regional food systems; research impacts & evaluation;

### **EDUCATION**

#### **UNIVERSITY OF ARIZONA**

*Ph.D., School of Geography & Development, 2010—2019*

*Dissertation: Evaluating Effectiveness in Climate Change Adaptation and Socially-Engaged Climate Research*

*Chair: Dr. Diana Liverman*

#### **UNIVERSITY OF ARIZONA**

*M.A., Latin American Studies – Anthropology and Environment focus, 2004—2006*

*Thesis: Marketing Mysticism and the Purchase of Pilgrimage: The Rise of Spiritual Tourism in Cusco and Iquitos Peru*

#### **UNIVERSITY OF CALIFORNIA, DAVIS**

*B.A., Nature and Culture, emphasis in Ecology, 1998—2002*

### **PROFESSIONAL EXPERIENCE**

#### **RESEARCH SCIENTIST**, Tucson, AZ

*Climate Assessment for the Southwest (CLIMAS), University of Arizona, 2008—Present*

- Principal Investigator—Building Regional Food System Resilience in Southern Arizona
- Director—Environment and Society Graduate Fellows Program
- Program Knowledge Manager—CLIMAS Evaluation
- Previous Research: Evaluation of Fire Forecast Products to Enhance U.S. Drought Preparedness; Developing Useful Science: Engaging Stakeholders and Evaluating Integrated Climate Information

#### **RESEARCH SPECIALIST**, Tucson, AZ

*Bureau of Applied Research in Anthropology, University of Arizona, 2006—2008*

- Team Investigator—*Evaluation of Small Scale Burning of Waste and Wood in Nogales, Sonora (U.S. EPA Border 2012 Air Quality Task Force Initiative)*
- Team Investigator—The Gulf of Mexico Alliance Diversity Project: Enhancing Environmental Education to Reach Underserved and Underrepresented Populations
- Team Investigator—Translational Science Fellowship in Environmental, Water, Land, and Natural Resource Sciences
- Assistant Coordinator—Graduate and Undergraduate Internship Program

#### **RESEARCH ASSISTANT**, Tucson, AZ

*Climate Assessment for the Southwest (CLIMAS), University of Arizona, 2004—2006*

- *Community and Conservation in the U.S.-Mexico Border Region: Assessing Public Values Toward the Lower Colorado River and Delta*

#### **RESEARCH & TEACHING ASSISTANT**, Tucson, AZ

*Alan Weisman, Center for Latin American Studies, University of Arizona, 2006*

- *U.S. Press Coverage in Latin America*

## RESEARCH TECHNICIAN, Tucson, AZ

Center for Insect Science Education, University of Arizona, 2003—2004

- Sonoran Insect Biodiversity Project

## RESEARCH ASSISTANT, Hermosillo, Sonora, MX

Instituto de Ecología, Universidad Nacional Autónoma de México, 2002—2004

- Ecosystem Impacts of Invasive Buffelgrass (*Pennisetum ciliare*) in the Sonoran Desert

## GRANTS AND AWARDS

Collaboratively Assessing Critical Social-Ecological System Buffers to Help Build Regional Climate Resilience: The Climate Assessment for the Southwest. Co-Principal Investigator. NOAA Climate Program Office — Regional Integrated Sciences and Assessments (RISA) Program, Grant #NA17OAR4310288. 2017—2022. (\$3,464,261 over 5 years)

APAC Professional Development Award. University of Arizona. 2016. (\$200)

Travel Grant, Graduate & Professional Student Council, University of Arizona: 2015 (\$700); 2013 (\$500); 2012 (\$500); 2006 (\$500)

Adapting to Climate Variability, Thresholds, and Extremes in the Southwest: The Climate Assessment for the Southwest. Research Staff. NOAA Climate Program Office – Regional Integrated Sciences and Assessments (RISA) Program, Grant #NA12OAR4310124. 2012—2017. (\$3,474,907 over 5 years)

Coping with Drought Research Grant (Co-PI), Climate Program Office, National Oceanic and Atmospheric Administration. 2009—2011. (\$103,000)

Travel Grant, Latin American Studies Foundation, University of Arizona, 2006 (\$300)

Research Grant, Tinker Foundation. 2005. (\$1,000)

Citation for Outstanding Performance in Nature and Culture, University of California, Davis, 2002

## PUBLICATIONS

### PEER REVIEWED

**Owen, G.** 2020. *What makes climate change adaptation effective? A systematic review of the Literature.* *Global Environmental Change* 62: 102071. DOI: 10.1016/j.gloenvcha.2020.102071.

**Owen, G., D. Ferguson, and B. McMahan.** 2019. *Contextualizing climate science: Applying social learning systems theory to knowledge production, climate services, and use-inspired research.* *Climatic Change* 157: 151-170. DOI: 10.1007/s10584-019-02466-x

**Ferguson, D., M. Finucane, V. Keener, and G. Owen.** 2016. *Evaluation to Advance Science Policy: Lessons from Pacific RISA and CLIMAS.* In *Climate in Context.* Eds. A Parris, G. Garfin, K. Dow, R. Meyer, and S. Close. Wiley Publications.

**Meadow, A., D. Ferguson, Z. Guido, A. Horangic, G. Owen, and T. Wall.** 2015. *Moving toward the deliberate co-production of climate science knowledge.* *Weather, Climate, and Society* 7(2): 179-191.

**Lyons, K., B. Maldonado, and G. Owen.** 2013. *Community and ecosystem effects of buffelgrass (*Pennisetum ciliare*) and nitrogen deposit in the Sonoran Desert.* *Invasive Plant Science and Management* 6(1): 65-78.

**Werner, K., K. Averyt, and G. Owen.** 2013. *River forecast application for water management: oil and water?* *Weather, Climate, and Society* 5: 244-253.

**Owen, G., J. McLeod, C. Kolden, D. Ferguson, and T. Brown.** 2012. *Wildfire management and forecasting fire potential: the roles of climate information and social networks in the southwest United States.* *Weather, Climate, and Society* 4(2): 90-102.

**Morehouse, B., D. Ferguson, G. Owen, A. Browning-Aiken, P. Wong-Gonzalez, N. Piñeda, and R. Varady.** 2008. *Science and socio-economic resilience: examples from the Arizona-Sonora border.* *Environmental Science and Policy* 11(3): 272-284.

## OTHER

- Owen, G.** 2019. Evaluating Effectiveness in Climate Change Adaptation and Socially-Engaged Climate Research. University of Arizona, School of Geography and Development. PhD Dissertation.
- Owen, G.** 2018. Adapting to Climate Variability, Thresholds, and Extremes in the Southwest. Phase IV: Final Progress Report for Funding Years 2012-2018. National Oceanic and Atmospheric Administration Climate Program Office. Grant: NA12OAR4310124. CLIMAS: Tucson, AZ.
- Meadow, A.M., E. McNie, J. Berggren, R. Norton, B. McMahan, **G. Owen**, and L. Rae. 2016. NOAA Western Region Climate Service Providers Database Development and Preliminary Analysis Report. Western Water Assessment: Boulder, CO.
- Meadow, A.M., S. Villegas, E.E. Chew, M.A. Crimmins, G. Frisvold, D. Ghasemian, R. LaMantia, **G. Owen**, L. Palacios, L. Rea, M.B. Roudaut, and J. Weiss. 2016. Tohono O'odham Nation Climate Change Adaptation Plan: Climate Science and Impacts Background Report. University of Arizona: Tucson, AZ.
- Owen, G.** 2013. Integrating Climate Science for Decision-Support, Mitigating Risk, and Promoting Resilience. Phase III: Final Progress Report for Funding Years 2007-2013. National Oceanic and Atmospheric Administration Climate Program Office. Grant: NA07OAR4310382. CLIMAS: Tucson, AZ.
- Owen, G.**, K. Averyt, and K. Werner. 2010. *Using & Improving the Tools Available at the Colorado River Basin Forecast Center: A toolkit for user engagement*. Tucson, AZ: CLIMAS.
- Burke, B., B. McMahan, and **G. Owen**. 2008. Sustainable university-community partnerships: balancing teaching, research, and action. *Anthropology News* 49(6): 10-11.
- Austin, D. **G. Owen**, S. Curtin-Mosher, M. Sheehan, J. Slack, O. Cuellar, M. Abela, P. Molina, B. Burke, and B. McMahan. 2007. *Evaluation of Small Scale Burning of Waste and Wood in Nogales, Sonora: Final Report*. Arizona Department of Environmental Quality.
- Trujillo, F. G. Melendrez, and **G. Owen**. 2007. Community perspectives on building partnerships with university students. *Practicing Anthropology* 29(3): 9-13.

## TRAINING & STUDENT MENTORSHIP

- 2020: Practicing Collaborative Research. Transdisciplinary Environmental Science for Society (TESS) program, University of Arizona. Online 4-week Course.
- 2020: Identifying and Reporting the Societal Impacts of Your Research: Strategies and tools to craft a research impacts case study. University of Arizona. Online workshop.
- 2018 – present: Environment & Society Fellowship Training Seminar
- Quarterly training meetings on topics related to use-inspired science and transdisciplinary research
- Fall 2018: Social Science Tools for Making Science Actionable—Northwest Climate Adaptation Science Center Series (*online*)
- Considering Research Ethics and Design for Participatory Research Projects
  - Using Interviews and Surveys to Strengthen Research Partnerships
  - Understanding Organizations Using Ethnographic Field Methods
  - Analyzing Qualitative Data: Understanding and Using Interview, Survey, and Observational Data
- Guest Lectures:
- GEOG 596M – Making the Connection Between Science and Decision Making (Spring 2018, 2019, 2020)

## PRESENTATIONS

- 2020 Demonstrating Impact: Scaling from project evaluation to collective impact. Advancing Research Impacts in Society Summit, virtual.
- 2019 Evaluating the Effectiveness of a Socially-Engaged Climate Research Program: Moving toward an evolution in theory and practice. Advancing the Science of Science to Action, American Geophysical Union. San Francisco, CA.
- 2019 Panel on Interdisciplinary and Transdisciplinary Research. Dimensions of Political Ecology. Lexington, KY.
- 2018 Evaluating Climate Services and Use Inspired Research in the U.S. Southwest. Climate Assessment for the

- Southwest Colloquium Series. Tucson, AZ.
- 2017 Evaluating CLIMAS: Climate services and use-inspired science in the U.S. Southwest. Climate Assessment for the Southwest Colloquium Series. Tucson, AZ.
- 2017 Evaluating Co-Produced Science: A case study. Annual Meeting of the Association of American Geographers. Boston, MA.
- 2017 Climate Change Adaptation: What work does it do? Dimensions of Political Ecology. Lexington, KY.
- 2016 Evaluating Co-Produced Science: A case study. American Evaluation Association Annual Meeting. Atlanta, GA.
- 2016 Measuring the Impact of Co-Produced Climate Knowledge in the U.S. Southwest: a CLIMAS program evaluation. Presentation to the Caribbean Institute for Meteorology and Hydrology. Tucson, AZ. (*invited*)
- 2016 Evaluating Climate Adaptation in Tucson, AZ. Annual Meeting of the Association of American Geographers. San Francisco, CA.
- 2016 Evaluating Adaptation in Tucson, AZ. Regional Integrated Sciences and Assessments Annual Meeting. Tucson, AZ.
- 2015 Improving the Science of Science Policy through Climate Services Evaluation. American Meteorological Society Annual Meeting. Phoenix, AZ.
- 2014 Using Video to Enhance Efforts for Social Change. Masters in Development Planning Colloquium, University of Arizona. Tucson, AZ. (*invited*)
- 2013 Embodying Food and Food Politics in Southern Arizona. Annual Meeting of the Association of American Geographers. Los Angeles, CA.
- 2013 Making Sense – A creative exploration of sensing the world. *Session Organizer*. Annual Meeting of the Association of American Geographers. Los Angeles, CA.
- 2012 Climate Research, Decision Support, and Outreach: An overview of the CLIMAS program. 2012 CALS Extension Conference. Tucson, AZ. (*invited*)
- 2012 Social Constructions of Climate Extremes in the U.S. Southwest. Annual Meeting of the Association of American Geographers. New York, NY.
- 2011 Fire Management and Forecasting Potential: Climate, Perception, and Social Networks. Association of American Geographers. Seattle, WA.
- 2010 Developing Useful Science: Methods for engaging stakeholders and evaluating integrated climate tools. American Meteorological Society Annual Meeting. Atlanta, GA.
- 2010 A Toolkit for User Engagement. National Weather Service Water Resources Workshop. Park City, UT. (*invited*)
- 2010 A Toolkit for User Engagement. National Weather Service Western Region SAFER Workshop. Salt Lake City, UT. (*invited*)
- 2010 Social Network Analysis and Evaluation of the NSAW Fire Potential Outlook. Boulder, CO. (*invited*)
- 2010 Applications of Social Science Methods: Evaluation and diffusion of innovations. Southwest Fire Science Consortium Workshop. Tucson, AZ. (*invited*)
- 2009 Social Network Analysis and Evaluation of the Significant Fire Potential Outlook. National Seasonal Assessment Workshop for Significant Fire Potential. Boulder, CO.
- 2009 Improving Stakeholder Access to Climate Information: Results from the Southwest Climate Outlook Evaluation. Climate Prediction Applications Science Workshop. Norman, OK.
- 2009 Diversity in Environmental Education in the Gulf of Mexico: Moving from Ideas to Action, Poster Session, Society for Applied Anthropology. Santa Fe, NM.
- 2007 Marketing Mysticism and Purchasing Pilgrimage in Cusco, Peru. Rocky Mountain Council on Latin American Studies Conference. Santa Fe, NM.
- 2006 Marketing Culture and the Sacred in the Peruvian Tourism Industry. Latin American Studies Association Congress, San Juan. Puerto Rico.
- 2005 In Search of Andean Mystics and Amazonian Curanderos: Spiritual Tourism in Perú. Tinker Symposium on Graduate Field Research in Latin America. Tucson, AZ.

## SERVICE

Committee Leader: Justice, Equity, Diversity, Inclusion Initiative, Arizona Institutes for Resilience (2020 – Present)  
Review Committee Director, Environment & Society Fellowship, University of Arizona (2013 – Present)  
Peer-review: *Climate Risk Management* (2020); *Agriculture and Human Values* (2020); *Weather, Climate and Society* (2015, 2016, 2020); *Climatic Change* (2019); *Journal of Environmental Management* (2017, 2018);  
Volunteer, Community Food Bank of Southern Arizona, Tucson (2014 – 2017)  
Editor, *you are here: a journal of creative geography* (2012 – 2013)  
President, Southern Arizona Geographers' Association (2011 – 2012)  
Review Committee Member: Agnese Nelms Haury Program in Environment and Social Justice (2016); Graduate and Professional Student Committee Travel Grants (2012, 2015)

## PROFESSIONAL DEVELOPMENT

Advancing Research Impacts in Society (ARIS): Broader Impacts Workshop, December 2019  
Alan Alda Science Communication Workshop, February 2018  
Coursera Certification in Data Visualization with Tableau, January 2018.  
MAXQDA 12 for Windows and Mac Software Online Training. December 2016.  
Video Production Workshop in Latin America, July 2011. Oaxaca, Mexico

## VIDEO PRODUCTION

### DOCUMENTARIES

2013 Stories from Seeds: Embodying food and food politics in Southern Arizona  
2013 Arizona Master's in Development Practice Program  
2012 Coping with Drought in the Rio Grande  
2011 Comiendo Plagas – Eating Pests

### MUSIC VIDEOS

2017 “Champagne and Pearls” — Jillian and the Giants  
2017 “Chicago” — Jillian and the Giants  
2017 “Know Your Rights” — Foxx Bodies, for KXCI Radio International Clash Day  
2016 “Where Do My Bluebird Fly” — Katie Haverly  
2016 “100 Streams” — Katie Haverly and the Aviary

## SKILLS

Language: Fluent in Spanish and English  
Video Production: Filming, Directing, Editing  
Computer: Proficient in Microsoft Office (Word, Excel, Power Point, Access), MAXQDA, Final Cut Pro, File Maker Pro, NVivo, SPSS, Tableau, Adobe Creative Suite (Illustrator, Photoshop), EndNote, Internet, and e-mail in Mac OSX and Windows environments; intermediate familiarity with Social Network Analysis packages (Pajek, UCINET, R)