

# Paul Rogé, PhD

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## Education

### **PhD, UC Berkeley (2013)**

Department: Environmental Science, Policy, and Management

Dissertation: *Rainfed agriculture and climatic variability in Oaxaca, Mexico*

### **Bachelors in Science, UC Berkeley (2004)**

Major: Conservation and Resource Studies / Sustainable Agriculture

Minor: Forestry

## Funding and Awards

**Healing Living Systems and Riverside Food Systems Alliance contract (2018–present)**

**UC Berkeley Lecturer Teaching Fellowship (2017–present)**

**American Cultures Engaged Scholarship Award (2017–present)**

**Foundation for Food and Agriculture Research (2017 – present)**

**USDA Western Extension Risk Management Education Program (2017 – present)**

**USDA Beginning Farmer and Rancher Development Program (2015 – present)**

**USAID Modernizing Extension and Advisory Services Leader Award (2015 – 2016)**

**Gates Foundation Scoping Grant (2014 – 2015)**

**LASPAU Climate Change Professional Fellows Program (2012)**

**Fulbright-Garcia Robles Scholar (2010 – 2011)**

**UC MEXUS-CONACYT and UC MEXUS Small Grant (2009 – 2010)**

## Current Employment

**Agroecology Researcher (17% summer 2018 appointment)**

University of California, Berkeley

**Food Systems Lecturer (33-83% appointment since July 2016)**

University of California, Berkeley

**Agroecology Educator and Researcher (20-60% appointment since May 2016)**

Multinational Exchange for Sustainable Agriculture (MESA)

**Faculty Owner (since February 2017)**

The Cooperative New School for Urban Studies and Environmental Justice.

## Recent and Current Research

**Agroecology Researcher, UC Berkeley (2017 – present).** I am evaluating the productivity, labor requirements, and the potential of no-till vegetable production and forage radish cover crops to

improve soil quality and enhance water retention in urban production systems. This research is funded by [FFAR](#).

#### **Research Associate, Michigan State University (2014 – 2016)**

1. *Perennial Staple Food Crops*. I evaluated the potential for perennial staple food crops through literature reviews and interviews with farmers in Mali and Malawi. This research was funded by the [Gates Foundation](#).
2. *Strengthening Agriculture and Nutrition Extension Services Activity*. I studied the linkages between research and agricultural extension for nutrition-centered farming in Malawi. This research was funded by [USAID](#).

**Doctoral Researcher, UC Berkeley (2008 – 2013)**. My dissertation research at UC Berkeley focused on how farmers in the Mixteca Alta Region of Oaxaca, Mexico prepared for and coped with climatic variability. This research was funded by [Fulbright](#) and [UC MEXUS](#).

## Teaching and Mentorship in Higher Education

**Experiential Learning Through Engagement in Food Systems (2016 – present)**. Lecturer, UC Berkeley. I teach the capstone project-based course for the Food Systems undergraduate minor.

**Urban Agriculture and Food Justice (2017 – present, 2013, 2009)**. Currently lecturer, formerly graduate instructor, UC Berkeley. This course teaches ecologically-based horticulture and examines urban agriculture from the perspective of food justice.

**Undergraduate Mentorship (2016 – present)**. Lecturer, UC Berkeley. In addition to mentorship to students, I have supervised three undergraduate students honors theses and one masters student practicum.

**International Agricultural Systems (2014-2015)**. Lecturer, Michigan State University. We reviewed the biophysical and social dimensions of food production globally.

**Society Culture and Environment (2010)**. Graduate instructor, UC Berkeley. I led discussion sections on feminist, post-colonial, and indigenous critiques of science and technology.

## Community Engagement

**Training in community-engaged scholarship and education (2015 – present)**. I participated in the [Listening, Learning & Engagement Institute](#) and the *Just Listening Program* facilitated by [Luna Jiménez Seminars](#) in 2017 with financial support from the [American Cultures Program](#) and [Public Service Center](#) at UC Berkeley. I also participated in the 2015 *Pen to Paper Writing Retreat on Writing With, For and About Service- and Community-Engagement*.

**Popular education (2007 – present)**. I am committed to popular education. I offer online learning for community organizers through the [Cooperative New School](#), and I coordinate a USDA-funded program for formerly incarcerated people and immigrants/refugees with [MESA](#) and [Planting Justice](#). Through MESA, I am developing new popular education programs: an online course for farmers on climate resilience funded by [Western ERME](#), and a “Training of Farmer Trainers” funded by [Healing Living Systems](#) and [Grow Riverside](#).

**Farming** (2001–present). My practical experience with farming is the foundation for research and teaching in agroecology. I have worked on over 5 urban and rural farms for more than 7 years. From 2006-2007, I was responsible for regional direct marketing and organic vegetable and fruit production on a demonstration farm at [ALBA](#). In my undergraduate years from 2001-2004, I was a member of Berkeley Worms, a democratic workplace that composted food scraps to make an organic soil amendment sold at local plant nurseries.

## Professional Activities

Active member to the following associations and networks:

[Association of American Geographers](#) (AAG)  
[Campus Compact](#)  
[Latin American Scientific Society of Agroecology](#) (SOCLA)  
[National Incubator Farm Training Initiative](#) (NIFTI)  
[Sustainable Agriculture Education Association](#) (SAEA)

Recent peer reviewer for manuscripts submitted to:

[ACME: An International Journal for Critical Geographies](#)  
[Ecology and Society](#)  
[Human Ecology](#)  
[Renewable Agriculture and Food Systems](#)

## Professional Skills

**Advanced scientific computing and web design:** Statistics in [R](#) and geospatial analysis in [Grass GIS](#) and [QGIS](#); web design ([Drupal](#), [Wordpress](#), [CiviCRM](#), [BigBlueButton](#), and [Moodle](#));<sup>1</sup> and linux systems administration.

**Fluency in English, French, Spanish, and Portuguese.** My first languages are English and French. I gained fluency in Spanish through my doctoral research in Mexico and my years of farmwork in the United States. I learned Portuguese from two years of residence in Brazil.

Agricultural Pest Control Adviser License (2009)

## Publications

### *Forthcoming*

1. Arnold, Joshua, and **Paul Rogé**. Submitted. "Indicators of land insecurity for urban farms: institutional affiliation, investment, and location." *Sustainability*.
2. **Rogé, Paul**. Accepted. "Improvisatory activist scholarship: dance practice as metaphor for participatory action research." *ACME: An International Journal for Critical Geographies*.

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1. See [paulroge.net](#), [cooperativenewschool.com](#), and [nature.berkeley.edu/food-systems-projects](#)

*Peer-Reviewed Journal Articles*

1. Snapp, Sieglinde, **Paul Rogé**, Patrick Okori, Regis Chikowo, Brad Peter, and Joseph Messina. 2018. "Perennial grains for Africa: possibility or pipedream?" *Experimental Agriculture*: 1–22. doi:10.1017/S0014479718000066.
2. Pérez-Marin, Aldrin M., **Paul Rogé**, Miguel A. Altieri, Luis F. Ulloa Forer, Luciano Silveira, Victor M. Oliveira, and Barbara E. Domingues-Leiva. 2017. "Agroecological and social transformations for coexistence with semi-aridity in Brazil." *Sustainability* 9 (6): 990. doi:10.3390/su9060990.
3. **Rogé, Paul**, Tidiane Diarisso, Fatoumata Diallo, Youssouf Boiré, Diakaridia Goïta, Brad Peter, Moussa Macalou, Eva Weltzien, and Sieglinde Snapp. 2017. "Perennial grain crops in the West Soudanian Savanna of Mali: perspectives from agroecology and gendered spaces." *International Journal of Agricultural Sustainability*: 1–20. doi:10.1080/14735903.2017.1372850.
4. Kane, Daniel Aloysius, **Paul Rogé**, and Sieglinde Snapp. 2016. "A systematic review of perennial staple crops literature using topic modeling and bibliometric analysis." *PLOS ONE* 11 (5): e0155788. doi:10.1371/journal.pone.0155788.
5. **Rogé, Paul**, Aida C. Ríos, Silvia V. Ruiz, Patricio Sánchez, Francisco Mora, Miguel A. Altieri, and Marta Astier. 2016. "Manejo de agroambientes para la resiliencia agroecológica al cambio climático: Los sistemas maíz cajete y maíz de temporal en San Miguel Huautla Nochixtlán Oaxaca" [in Spanish]. *Agroecología* 11 (2). <https://paulroge.net/sites/default/files/publications/roge-2016-manejo.pdf>.
6. **Rogé, Paul**, Sieglinde Snapp, Mayamiko Nathaniel Kakwera, Leah Mungai, Isaac Jambo, and Brad Peter. 2016. "Ratooning and perennial staple crops in Malawi: A review." *Agronomy for Sustainable Development* 36 (3). doi:10.1007/s13593-016-0384-8.
7. **Rogé, Paul** and Marta Astier. 2015. "Changes in climate, crops, and tradition: cajete maize and the rainfed farming systems of Oaxaca, Mexico." *Human Ecology* 43 (5): 639–653. doi:10.1007/s10745-015-9780-y.
8. **Rogé, Paul**, Andrew R. Friedman, Marta Astier, and Miguel A. Altieri. 2014. "Farmer strategies for dealing with climatic variability: A case study from the Mixteca Alta Region of Oaxaca, Mexico." *Agroecology and Sustainable Food Systems* 38 (7): 786–811. doi:10.1080/21683565.2014.900842.

*Books and Magazines*

1. Altieri, Miguel A., Clara I. Nicholls, **Paul Rogé**, and Joshua Arnold. 2017. "Urban agroecology: principles and potential." *Urban Agriculture Magazine* 33:18–20. <http://www.ruaf.org/urban-agroecology-principles-and-potential/>.
2. Atwood, Leah, Ana Cecilia Galvis, Natalia Pinzón, and **Paul Rogé**. 2017. "Advancing on-farm climate resilience with citizen science." *Farming Matters* 33, no. 2 (June): 26–27. <https://www.ileia.org/2017/06/26/advancing-farm-climate-resilience-citizen/>.
3. Young, Sarah, **Paul Rogé**, and Janna Meiring. 2017. "E|M|MERGING: addressing racism and instigating change at earthdance." *Contact Quarterly: Dance & Improvisation Journal* 42 (1): 9–11. <https://paulroge.net/sites/default/files/publications/young-2017-emerging.pdf>.

4. Chikowo, Regis, **Paul Rogé**, and Sieg Snapp. 2016. *Integrating diverse grain legumes for increased land productivity on small farms in Malawi*, 52 Profiles on Agroecology. FAO. <http://www.fao.org/agroecology/detail/en/c/443574/>.
5. Altieri, Miguel, Clara I. Nicholls-Estrada, Alejandro Henao-Salazar, Ana C. Galvis-Martínez, and **Paul Rogé**. 2015. *Didactic toolkit for the design, management, and assessment of resilient farming systems*. Penang: TWN. <https://paulroge.net/sites/default/files/publications/altieri-2015-didactic.pdf>.
6. **Rogé, Paul** and Marta Astier. 2013. "Preveniéndose para el cambio climático: una metodología participativa" [in Spanish]. Chap. 9 in *Agroecología y Resiliencia Socioecológica: adaptándose al cambio climático*, edited by Clara Nicholls, Leonardo Ríos, and Miguel Altieri, 124–148. Medellín, Colombia: REDAGRES. <https://paulroge.net/sites/default/files/publications/roge-2013-previniendose.pdf>.
7. Altieri, Miguel, and **Paul Rogé**. 2009. "The ecological role and enhancement of biodiversity in agroecosystems: Livelihoods and Agroecology in Comparative Perspective." In *Agriculture, Biodiversity and Markets*, edited by Stewart Lotkie and David Carpenter, 15–32. London: Earthscan. <https://paulroge.net/sites/default/files/publications/altieri-2009-ecological.pdf>.

### Oral Presentations

1. Miguel, Altieri, and **Paul Rogé**. 2017. "Agroecological methods to assess the resilience of farming systems." In *EcoFarm Conference*. Pacific Grove, California: Ecological Farming Association, January 27.
2. **Rogé, Paul**. 2017. "Participatory action research and the evaluation of agroecosystems." In *Workshop on Intensified Ecological Sustainable Agriculture*. Hangzhou, Zhejiang, China: Zhejiang University, August 2.
3. **Rogé, Paul**. 2016a. "Discussant." In *Ya no es como antes: farmer adaptation to a changing climate in Latin America*. San Francisco, CA: Association of American Geographers Annual Meeting, April 1.
4. **Rogé, Paul**. 2016b. "Participatory action research viewed from the lens of improvisational dance." In *Scholar activist, activist scholar session: Cultivating an ongoing community of justice of practice*. San Francisco, CA: Association of American Geographers Annual Meeting, March 30.
5. **Rogé, Paul**. 2015a. "Network analysis of literature on perennial grains." In *Annual Meeting*. Association of American Geographers Annual Meeting, April 25.
6. **Rogé, Paul**. 2015b. "Values and practices associated with ecosystem services in agroecology." In *Regional Agroecology Meeting for Africa*. Dakar, Senegal: FAO, November 5.
7. **Rogé, Paul**, Mayamiko Kakwera, Isaac Jambo, and Sieg Snapp. 2015. "Perenniality in existing African cropping systems." In *Putting perennial crops to work in practice: pigeonpeas and sorghum*. Bamako, Mali: FAO/ICRISAT, September 3.
8. **Rogé, Paul**, Daniel Kane, and Sieg Snapp. 2015. "A quantitative review of the literature on perennial grains." In *Putting perennial crops to work in practice: pigeonpeas and sorghum*. Bamako, Mali: FAO/ICRISAT, September 4.

9. Astier, Marta, and **Paul Rogé**. 2012. "Cambios en el clima, sistemas campesinos en México y la Red Iberoamericana de Agroecología para el Desarrollo de Sistemas Agrícolas Resilientes al Cambio Climático" [in Spanish]. In *Memorias del Congreso SEAE*. Albacete, Spain, September 24.
10. **Rogé, Paul**. 2012a. "El cambio climático y agroecología" [in Spanish]. In *Special Invitation*. Universidad Rafael Landívar, Guatemala, March 16.
11. **Rogé, Paul**. 2012b. "Experiencias con Adaptación al Cambio Climático" [in Spanish]. In *Simposio Internacional de Agroecología, Cambio Climático y Resiliencia*. Universidad Nacional de Colombia – Sede Medellín, Colombia, March 16.
12. **Rogé, Paul**. 2011a. "A methodology for the participatory evaluation of biophysical resilience to climatic variability: The Mixteca Alta of Oaxaca, Mexico." In *Third Latin American Congress of Agroecology*. Morelos, Mexico, August 19.
13. **Rogé, Paul**. 2011b. "Agroecology, indicators, and farmer participation in sustainable rural development." In *Symposium of the Academy of Neotropic Biodiversity*. Oaxaca, Mexico, November 4.
14. **Rogé, Paul**, Miguel Altieri, Marta Astier, Phil Dahl-Bredine, and Aida Carmen Ríos. 2011. "Changes in sowing: cajete maize and climate change." In *Third Latin American Congress of Agroecology*. Morelos, Mexico, August 19.
15. **Rogé, Paul** and Shoshana Perrey. 2011. "Selecting for climatic variability: seed conservation for rainfed agriculture in Mexico." In *Society for Applied Anthropology (SEAA) Annual Conference*. Seattle, WA: Society for Applied Anthropology, March 30.

### Poster Presentations

1. Friedman, Andrew R., **Paul Rogé**, Marta Astier, and Miguel A. Altieri. 2015. "Farmer strategies for dealing with climatic variability: A case study from the Mixteca Alta Region of Oaxaca, Mexico." Association of American Geographers Annual Meeting, April 27.
2. **Rogé, Paul**, Andrew Friedman, Marta Astier, and Miguel Altieri. 2015. "Adaptation of rainfed agriculture to climatic variability in the Mixteca Alta Region of Oaxaca, Mexico." In *Toward Better Understanding of the Impacts of Climate Variability: From Ecosystem Processes to Agricultural Adaptation and Decision Making*. San Francisco, CA, December 18.
3. **Rogé, Paul**, CEDICAM, Andrew R. Friedman, Marta Astier, and Miguel A. Altieri. 2013. "Farmer responses to climatic variability in the Mixteca Alta of Oaxaca, Mexico: water, climate, and society." In *Philomathia Symposium*.
4. Ríos, Aída C, Silvia V Ruíz, Marta Astier, Jesús León Santos, Miguel Altieri, **Paul Rogé**, Francisco Mora, and Mayra Gavito. 2012. "Productividad y resiliencia en sistemas agrícolas tradicionales en la Mixteca Alta Oaxaqueña" [in Spanish]. In *III Coloquio Internacional en Geografía Ambiental*. Morelia, Michoacán, México, March 24.
5. Friedman, Andrew R, **Paul Rogé**, Marta Astier, and John Chiang. 2011. "Local climate variability and rainfed maize agriculture in highland Oaxaca, Mexico." In *Regional Integration of Climate Science, Information and Capacity Building with Regard to Climate Variability and Change in The Americas*. Denver, CO, October 25.

6. **Rogé, Paul**, Andrew Friedman, Miguel Altieri, Marta Astier, Julio Sánchez Escudero, and Jesús León Santos. 2009. "Adaptation of traditional agroecosystems to climate variability in Oaxaca, Mexico." In *Brazilian Journal of Agroecology*. Curitiba, Brazil, November 10.
7. **Rogé, Paul**, Lorena Vieli, Albie Miles, and Miguel Wilson Houston Altieri. 2009. "Effect of landscape structure on biological control of vineyard pests in Northern California." In *Brazilian Journal of Agroecology*. Curitiba, Brazil, November 10.