

Chantelise M. Pells

SocioEnvironmental and Education Network, SEEN

cpells@seen.team

EDUCATION

PhD, Geography	University of California-Davis, Department of Environmental Science and Policy, December 2014
Specializations	Environmental governance policy; agricultural and water sustainability
Dissertation	<i>Water into Wine: Power and Participation in Local Groundwater Governance in Guadalupe Valley, Mexico</i>
Dissertation Committee	Professors Mark Lubell (chair), Josué Medellín-Azuara, and Beth Rose Middleton
Master's, Geography	University of California-Davis, Department of Environmental Design, 2008
Specializations	Agricultural sustainability; political ecology of traditional agriculture
Thesis	<i>Andean Terracing and Agriculture Sustainability in the Peruvian Andes: A Human Ecology Perspective</i>
B.A., Geography	University of California-Berkeley, 1999
Specializations	Sustainable agriculture; agroecology

PROFESSIONAL EXPERIENCE

Honorary member of UC Merced Water Systems Management Lab. Researcher. Department of Environmental Engineering. Under the direction of Josué Medellín-Azuara. 2021-present.

Graduate Student Researcher (GSR) for UC Davis Center for Watershed Sciences, 2013. Co-organized and conducted a pre-feasibility study for a water fund sponsored by The Nature Conservancy. Developed a stakeholder survey for workshop in Ensenada, Mexico, and co-authored final report.

Manager of an urban farm in San Francisco Bay Area, 2001-present. Activities focus on sustainable agriculture practices, especially soil enhancement and water harvesting technologies.

Owner operator of an ecological landscape design company in San Francisco Bay Area, 2000-present. Design, build and maintain agro-ecological and restoration landscapes. Employer of numerous landscape design and installation employees. Taught sustainability principles of agricultural and landscape design practices.

Employee of Wildheart Gardens, a permaculture landscape firm focused on community activism through development of community and school gardens, 2000-2001.

PEER REVIEWED PUBLICATIONS

Medellín-Azuara, J., Mendoza-Espinosa, L.G., **Pells, C.M.** and Lund, J.R. 2013. *Pre-Feasibility Assessment of a Water Fund for the Ensenada Region: Infrastructure and Stakeholder Analyses. A Report for The Nature Conservancy*. Prepared by the Center for Watershed Sciences, UC Davis.

Pells, C.M. (2015). Power and the distribution of knowledge in a local groundwater association in Guadalupe Valley, Mexico's premier viticulture region. in K. Emerson, and T. Nabatchi, *Collaborative Governance Regimes*. Georgetown University Press.

Flores-Landeros, H., **Pells, C.M.**, Campos Martinez, M.S., Fernandez-Bou, A.S., Ortiz Partido, J.P., Medellin-Azuara, J., (2021). Community Perspectives and Environmental Justice in California's San Joaquin Valley. *Environmental Justice*.

Fernandez-Bou, A.S., Ortiz Partido, J.P., Rodriguez, L.C., **Pells, C.M.**, et al., (2021). 3 Challenges, 3 Errors, and 3 Solutions to Integrate Frontline Communities in Climate Change Policy and Research: Lessons From California. *Frontiers in Climate*.

Fernandez-Bou, A.S., Ortiz Partido, J.P., **Pells, C.M.**, et al., (2022), Regional Report for the San Joaquin Valley Region on Impacts of Climate Change. California Natural Resources Agency.

Fernandez-Bou, A.S., Rodriguez-Flores, J.M., Guzman, Ortiz-Partida, J.P., Classen-Rodriguez, L.M. Sanchez-Perez, P.A., Valero-Fandino, J., **Pells, C.M.**, Flores-Landeros, H., et al. (Forthcoming 2022). Water, environment and socioeconomic justice in California: a multi-benefit framework.

Pells, C.M. (Forthcoming 2022). Power and Groundwater Inequality: The Impact of Decentralization and Neoliberalization in Guadalupe Valley, Mexico.

Working papers

Medellín-Azuara, J., Mendoza-Espinosa, L.G., **Pells, C.M.** Assessing the potential for paying for ecosystem services through a Water Fund: a case study of Ensenada, Baja California, México. Targeted journal: *Sustainable Cities*

Rienschke, M., Mwampamba, T., **Pells, C.M.** Robbins, M., Balvanera, P. Using case studies to teach synthesis and analysis of complex sustainability challenges. Target journal: *Case Studies in the Environment*.

OUTREACH PUBLICATIONS

Mwampamba, T., **Pells, C.M.**, Robbins, M. 2014. *His Lips Drink Water But His Heart Drinks Wine: Groundwater Availability, Access and Governance in the Guadalupe Valley, Mexico*. A case study online resource publication prepared and published by SESYNC. www.sesync.org.

GRANTS AND FELLOWSHIPS

Henry A. Jastro Shields Research Fellowship 2009
UC Davis Geography Graduate Group Fellowship, 2009-2013
Henry A. Jastro Shields Research Fellowship, 2010
Environmental Justice Project: White Family Graduate Student Award, 2011
Henry A. Jastro Shields Research Fellowship 2011
UC Davis Graduate Studies Travel Award, 2011
UC Davis Graduate Student Association Travel Award, 2014
SESYNC Teach SES Fellowship 2014

CONFERENCES AND ASSOCIATED WORKING PAPERS

Pells, C.M. 2016. Using case studies to teach synthesis and analysis of complex sustainability challenges. June 19 – 23. Association for Tropical Biology and Conservation (ATBC). Montpellier, France

Pells, C.M. 2014. Power and the distribution of knowledge in a local groundwater association in Guadalupe Valley, Mexico's premier viticulture region. June 18-2. Workshop on the Ostrom Workshop (WOW5), University of Indiana, Bloomington.

Pells, C.M. 2014. Groundwater Policy Instruments: Case Study Baja California, Mexico. April 16. Poster Presentation at Climate Change Water and Society (CCWAS-IGERT) conference, Davis, CA.

Pells, C.M. 2014. Local groundwater governance and socio-environmental sustainability: Equity impacts of groundwater intensification in Mexico's premier viticulture region. April 8-12. Annals of American Geographers (AAG) annual conference, Tampa Florida.

Pells, C.M. 2014. Agricultural water sustainability and social equity impacts of groundwater intensification. February 27-March 1. Dimensions of Political Ecology (DOPE) conference, Lexington, Kentucky.

Pells, C.M., Medellin-Azuara, J., 2013. Governance, potential participants and support for a water fund [in the Ensenada Region] (*Gobernabilidad, participantes potenciales e interacción en un Fondo de Agua*) February 19-22. Workshop with local stakeholders investigating establishment of a water fund in the Ensenada Region in Baja California, Mexico. Sponsored by The Nature Conservancy.

Associated conference materials:

Developed and administered stakeholder survey to participants.

Pells, C.M. 2011. Sustainability and cooperation: Local groundwater governance in Sonoma Valley, California. May 23. Presented at UC Davis Environmental Justice Program's White Family Award Forum.

Pells, C.M. 2011. Emergence and evolution of collective action theory. Presented at the International Webinar Conference on Collective Action and Natural Resources: *Conceptual* Issues, May 16. Organized by University of Madrid, Spain and the Botín Foundation Water Observatory, Spain.

Pells, C.M. 2011. Methods: Collective action and natural resources research analysis. Presented at International Webinar Conference on Collective Action and Natural Resources: *Methodological Issues*, May 18. Organized by University of Madrid, Spain and the Botín Foundation Water Observatory, Spain.

Pells, C.M. 2011. The role of social heterogeneity and collective action in water sustainability: A comparative analysis of local groundwater governance in two viticulture regions-Guadalupe Valley, Mexico, and Sonoma Valley, California. April 20-23. Presented at the Society for Human Ecology Conference, Las Vegas, Nevada.

Pells, C.M. 2011. Collaborative groundwater governance and viticulture: A comparative analysis of two wine regions: Sonoma Valley, California, and Guadalupe Valley, Mexico, April 12-16. Presented at the Annals of American Geographers Annual Meeting, Seattle, Washington.

Pells, C.M. 2010. Management of agricultural groundwater sustainability. Presented at the international pre-conference webcast series, Towards Sustainable Groundwater in Agriculture: An International Conference Linking Science and Policy. June 15-17. San Francisco, CA.

Associated conference materials:

Pells, C.M. 2010. Toward Sustainable Groundwater in Agriculture Conference Fact Sheet for Sustainable Groundwater Management.

RESEARCH EXPERIENCE

Affiliate researcher for UC Merced Water Systems Management Lab. 2021-present. Coauthored report on climate change impacts on communities in the San Joaquin Valley for California Natural Resources Agency.

Graduate Student Researcher (GSR) for UC Davis Center for Watershed Sciences, 2013. Co-organized and conducted a pre-feasibility study for a water fund sponsored by The Nature Conservancy. Developed a stakeholder survey for workshop in Ensenada, Mexico, and co-authored final report.

PhD fieldwork in Baja California, Mexico, 2009-2013, and Sonoma Valley, CA, 2010-2011. Conducted 200+ interviews/surveys with locals and officials and attended local water management meetings (SVGMP).

Master's fieldwork in Peru, 2005. Visited several highland agricultural communities and worked with local NGOs investigating potato biodiversity and agricultural terracing.

Bachelor's degree research 1999. Investigated Cuban agriculture shift to sustainable technologies that focused on vermiculture production during the "Special Period" (post-USSR era).

Bachelor's degree research 1998. Investigated social and environmental sustainability and Costa Rican banana plantations, especially agro-chemical run-off and pollution.

LANGUAGES

Spanish reading and speaking proficient

French reading and speaking experienced

TEACHING EXPERIENCE

UC Davis

Environmental Policy Process (ESP 160). Graduate Student Instructor. Spring 2014. Duties include: Led one weekly section on applying environmental case studies to analyze different policy theories and models.

Popular Science and Technology Writing (UWP11), Graduate Student Instructor, Winter 2014. Duties included: Led one weekly section on scientific writing and evaluating of student writing performance.

Public Lands Management (ESP172), Graduate Student Instructor, Fall 2013. Collaborated with instructor and TA on discussion section topics, developed classroom exercises and provided materials to students. Designed and wrote the TA course instruction manual.

Water, Power and Society (HYD10), Graduate Student Instructor, Spring 2013. Taught one weekly discussion section for over 100 students. Managed forum discussions and evaluated student writing performance and progress in research paper writing and revisions.

Landscape Meaning (LDA1), Graduate Student Instructor, Fall 2004. Taught two weekly discussion sections. Designed and developed classroom materials. Evaluated landscape design projects that involved sustainable or “green” design parameters.

UC Berkeley

Sustainable Agriculture Research and Education Program (SAREP). Teaching Assistant/Intern, 1999. Assisted instructors by instructing other students in sustainable agriculture methods and greenhouse production at UCB Gill Tract field.

Educational outreach and ecologically based pest management research program (under supervision of M. Altieri). UCB Research assistant, 1999. Co-instructed middle school youth on agroecological principles and field based experimental design and implementation at UCB Gill Tract field. Coordinated community and school garden outreach. Advised and assisted local schools and communities in the design and development of on-site sustainable gardens.

Invited Lectures

Integrated Water Resource Management (IWRM) in Mexico: Local groundwater governance in Guadalupe Valley. Guest speaker. 2011. Sonoma Valley Groundwater Management Program.

Traditional agriculture and sustainability: Peru’s agricultural system. Guest lecturer, 2009. Permaculture Design course. Merrit College Landscape Horticulture Department.

PROFESSIONAL DEVELOPMENT

Participant in National Socio-Environmental Synthesis Center (SESYNC) short-course on teaching socio-environmental synthesis through the use of case studies 2014. Developed a case study for SESYNC's online case study library.

COMMUNITY SERVICE AND OUTREACH

Led public tours and hands-on demonstrations at an urban farm site for sustainable agriculture classes at Merrit College and UC Davis as well as the general public, 2004-present.

Farmhand volunteer at a variety of sustainable farms, including Live Power Farm in Covelo, CA, and Occidental Arts and Ecology Center (OAEC) in Occidental, CA.

Lower-income community and school garden organizer and consultant volunteer at numerous sites in San Francisco Bay Area and Davis, CA, 1999-2003.

Ecological and watershed restoration volunteer at various locations that include: Lower Colorado River riparian restoration (YCNHA), creek restoration in Oakland, CA, and woodland restoration in Laytonville, CA, Ecovillage, 2000-2006.