

# AMY M. LERNER

Associate Teaching Professor  
Department of Urban Studies and Planning  
University of California, San Diego  
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**INTERESTS:** Human dimensions of global change, sustainable agricultural systems, socio-ecological systems, mixed-methods research, urban ecology and resilience, rural-urban transitions, science-policy interface for sustainability, sustainable livelihoods, Latin America

## EDUCATION

**PhD** **University of California Santa Barbara**, Geography, 2011  
Dissertation: *Landscapes and livelihoods on the urban fringe: Implications for maize production in central Mexico*

**MA** **Brown University**, Environmental Studies, 2006  
Subject areas: Conservation planning, land-use/cover change, environmental policy

**BA** **Stanford University**, Human Biology with Honors, 2000  
Minor, Latin American Studies

## RESEARCH AND PROFESSIONAL EXPERIENCE

- 2020-present **University of California, San Diego (UCSD)**, La Jolla, CA  
Associate Teaching Professor, Department of Urban Studies and Planning
- 2015-2020 **Universidad Nacional Autónoma de México (UNAM)**, Mexico City, Mexico  
Assistant Research Professor in the National Laboratory for Sustainability Science, Institute of Ecology
- 2013-2015 **Princeton University School of Public and International Affairs**, Princeton, NJ  
Post-doctoral Research Associate in Science, Technology, and Environmental Policy (STEP) – Sustainable Intensification of Tropical Livestock
- 2011-2013 **Rutgers University Departments of Human Ecology and Geography**, New Brunswick, NJ; Macas, Ecuador  
Post-doctoral researcher for NSF Biocomplexity Coupled Human and Natural Systems Grant #P1009499 – Spontaneous Silvo-pastoral Systems in Ecuador
- 2009-2010 **UCSB Department of Geography & El Colegio de México**, Santa Barbara, CA; Mexico City, Mexico  
Graduate student researcher for NSF Human and Social Dynamics Grant #0826871 – Socio-Ecological System of Maize in Mexico
- 2008-2009 **ASU School of Sustainability**, Tempe, AZ  
Associate researcher: Designed course materials and compiled data on Mexico

- 2007-2008     **Conservation International**, Santa Barbara, CA  
 Researcher: Compiled geographic data for alternative energies and biodiversity
- 2007           **UCSB Department of Geography**, Santa Barbara, CA  
 Graduate student researcher: Analyzed interviews for flood work in Mexico
- 2005-2006    **The Nature Conservancy**, Providence, RI  
 Student researcher: Created a transboundary conservation plan for master’s thesis
- 2002-2003    **Long Beach Organic**, Long Beach, CA  
 Executive Director of a non-governmental organization promoting urban gardens

**AWARDS AND DISTINCTIONS**

- 2022           San Diego County Collaboration for the Implementation of the Regional  
 Decarbonization Framework (RDF), with UCSD Global School of Policy, \$90,000 (Co-  
 PI J.B. Hines)  
**Funded research assistants: 1 undergraduate student**
- 2022           UCSD Academic Senate Grant, “Paving paradise? Furthering an exploration urban and  
 agricultural policies in San Diego County and their potential for fostering food  
 sovereignty,” \$12,000 USD (Co-PI Mirle Rabinowitz-Bussell)  
**Funded research assistants: 2 undergraduate students**
- 2021-2023     UCSD Community Engaged Learning Changemaker Faculty Fellow, \$10,000 USD  
**Funded research assistants: 1 undergraduate student**
- 2021           UCSD Academic Senate Grant, “Paving paradise? An exploration urban and  
 agricultural policies in San Diego County and their potential for fostering food  
 sovereignty,” \$15,000 USD (Co-PI Mirle Rabinowitz-Bussell)  
**Funded research assistants: 3 undergraduate students**
- 2020           Government of Mexico City Resilience Office, “Workshops: Integrated Risk  
 Management for the Construction of Resilience in Mexico City,” \$102,265.60 MXN  
**Funded research assistants: 1 PhD student**
- 2019-2020     Global Consortium for Sustainability Outcomes (GCSO), “Audacity for Partnerships:  
 Foregrounding Partnership Development in the Generation of Sustainability Solutions,”  
 \$11,500 USD  
**Funded research assistants: 2 PhD students and 2 Master’s students**
- 2018           Government of Mexico City Resilience Office, “Construction of a System for  
 Monitoring, Verification, and Reporting for the Resilience Strategy of Mexico City,”  
 \$2,500,000 MXN  
**Funded research assistants: 2 PhD students, 1 Master’s student**
- 2018           Government of Mexico City Resilience Office, “Socio-environmental vulnerability of  
 the Xochimilco World Heritage Site,” \$800,000 MXN  
**Funded research assistants: 2 PhD students and 1 Master’s student**
- 2018-2019     Global Consortium for Sustainability Outcomes (GCSO), “CapaCity: Building Capacity  
 for Climate Resilience and Sustainability in Cities” \$22,000 USD  
**Funded research assistants: 1 PhD students, 1 Master’s student**

- 2017-2018 Lincoln Institute of Land Policy, “Informality, Poverty, Clientelism, and Corruption: The governance of land change and ecosystem services in Mexico City's Conservation Zone” \$26,660 USD  
**Funded research assistants: 2 PhD students**
- 2017-2018 Global Consortium for Sustainability Outcomes (GCSO), “CapaCity: Building Sustainability Implementation Capacity in City Staff and Leadership” \$19,000 USD  
**Funded fieldwork: 1 PhD student and 2 Master’s students**
- 2017-2018 Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (PAPIIT), UNAM, “Socio-Cultural Values of Xochimilco, Mexico City”, \$380,000 MXN  
**Funded fieldwork: 1 PhD student and 2 Master’s students**
- 2012 Coupled Human and Natural Systems (CHANS) Fellow, \$750
- 2010 UCSB Graduate Opportunity Fellowship, \$30,000
- 2010 UCSB Doctoral Student Travel Grant, \$1,200
- 2009 Inter-American Foundation Grassroots Dissertation Fellowship, \$16,800
- 2008 Conference of Latin Americanist Geographers Field Study Award, \$1,000
- 2007 UCSB Leal Mertes Fieldwork Scholarship, \$1,000
- 2007 UCSB Teaching Assistant Instructional Grant, \$2,000
- 2006 Rhode Island Chapter of the American Planning Association Student Prize
- 2005 Brown University Graduate School Summer Funding, \$2,000
- 2004 Brown University Graduate School Partial Scholarship, \$18,000
- 1999 Stanford University Howard Hughes Medical Institute Grant, \$1,000
- 1998 Stanford University Bing Summer Undergraduate Research Fellowship, \$1,000

## PEER-REVIEWED PUBLICATIONS

(\*denotes corresponding author, underline denotes graduate student author)

### Academic Journal Articles

1. Rodríguez, E., Cid, A., García-Meneses, P., Peña-Sarabria, K., **Lerner, A.M.,** Matus-Kramer, A., and Escalante, A.E. 2022. From resilience attributes to city resilience. *Landscape and Urban Planning* (<https://doi.org/10.1016/j.landurbplan.2022.104485>)
2. Pérez-Belmont, P., **Lerner, A.M.\*,** Mazari-Hiriart, M., Valiente, E. 2021. Push and pull factors for peri-urban agricultural livelihoods: the case of the ancient chinampas of Mexico City. *Journal of Rural Studies*, 86: 452-462 (<https://doi.org/10.1016/j.jrurstud.2021.07.018>)
3. Hernández Aguilar, B., **Lerner, A.M.\*,** Manuel-Navarrete, D., Siquieros, J. 2021. Uncovering narrative pathways for dealing with water scarcity in urban informality: the case of two settlements in Xochimilco, Mexico City. *Water International*, 46: 919-937 (doi: 10.1080/02508060.2021.1923179 )
4. Zimmerer, K., Bell, M.G., Chirisa, I., Duvall, C., Egerer, M., Hung, P., **Lerner, A.M.,** Shackleton, C.M., Ward, J.D., Yacamán Ochoa, C. 2021. Specialty Grand Challenges in Urban Agriculture: Ecological and Social Approaches to Sustainability Transformations. *Frontiers in Sustainable Food Systems*. (doi: <https://doi.org/10.3389/fsufs.2021.668561>)
5. Jimenez, M., Perez Belmont, P., **Lerner, A.M.\*,** Schewenius, M., Mazari, M. 2020. Assessing historical adaptive cycles of an urban social-ecological system for understanding future resilience: The case of Xochimilco, Mexico City. *Regional Environmental Change* 20(7) <https://doi.org/10.1007/s10113-020-01587-9>

6. González-Padrón, S., Lerner, A.M.\*, Mazari-Hiriart, M. 2019. Improving Water Access and Health through Rainwater Harvesting: Perceptions of an Indigenous Community in Jalisco, Mexico. *Sustainability* 11(18), 4884. (doi: <https://doi.org/10.3390/su11184884> )
7. Siqueiros, J.M., Lerner, A.M.\*, Eakin, H., Hernández Aguilar, B. A. 2019. A standardization process for mental model analysis in socio-ecological systems. *Environmental Modelling and Software* 112: 108-111 (doi: 10.1016/j.envsoft.2018.11.016)
8. Withycombe Keeler, L., Beaudoin, F., Wiek, A., John, B., Lerner, A.M., Beecroft, R., Tamm, K. 2019. Building Actor-Centric Transformative Capacity through City-University Partnerships. *Ambio* 48(5): 529-538. (doi: <https://doi.org/10.1007/s13280-018-1117-9>)
9. Schneider, L.C., Lerner, A.M., McGroddy, M., Rudel, T.K. 2018. Assessing the provision of ecosystem services by silvopastoral landscapes: estimating above ground carbon in Ecuadorian Amazonian silvopastoral farms using optical remote sensing and field measurements. *Journal of Land Use Science* 13(5): 455-472. (doi: 10.1080/1747423X.2018.1542463)
10. Withycombe Keeler, L., Beaudoin, F., Lerner, A.M., John, B., Beecroft, R., Tamm, K., Griffith, C., Wiek, A., Lang, D. 2018. CapaCities: A framework for understanding city-university partnerships for sustainability and their role in transferring sustainability solutions across contexts. *Sustainability* 10(2966) (doi:10.3390/su10092966)
11. Eakin, H.C, Sweeney, S., Lerner, A.M., Appendini, K., Perales, H., Steigerwald, D., Dewes, C., Davenport, F., Bausch, J.C. 2018. Agricultural change and resilience: Agricultural policy, climate trends and market integration in the Mexican maize system. *Anthropocene* 23: 43-52 (doi: [10.1016/j.ancene.2018.08.002](https://doi.org/10.1016/j.ancene.2018.08.002))
12. Lerner, A.M.\*, Eakin, H., Tellman, B., Bausch, J.C., Hernandez, B. 2018. Governing the gaps in water governance and land-use planning in a megacity: The example of hydrological risk in Mexico City. *Cities*. Doi: <https://doi.org/10.1016/j.cities.2018.06.009>
13. Lerner, A.M.\*, Zuluaga, A., Chara, J., Etter, A., and Searchinger, T. 2017. Sustainable Cattle Ranching in Practice: Moving from Theory to Policy in Colombia's Livestock Sector. *Environmental Management* 60(2), 176-184 Doi: 10.1007/s00267-017-0902-8
14. Ramírez-Restrepo, C.A., Van Tien, D., Le Duc, N., Herrero, M., Le Dinh, P., Dinh Van, D., Le Thi Hoa, S., Vu Chi, C., Solano-Patiño, C., Lerner, A.M., and Searchinger, T. 2017. Estimation of methane emissions from local and crossbreed beef cattle in Daklak province of Vietnam. *Asian-Australasian Journal of Animal Sciences (AJAS)* 30(7): 1054-1060.
15. Grace, K., Lerner, A.M., Mikal, J., and Sangli, G. 2017. A Qualitative Investigation of Childbearing and seasonal hunger in Peri-Urban Ouagadougou, Burkina Faso. *Population and Environment* Doi: 10.1007/s11111-016-0268-5
16. Eakin, H., Bojorquez, L.A., Janssen, M.A., Georgescu, M., Manuel-Navarrete, D., Vivoni, E.R., Escalante, A.E., Baeza-Castro, A., Mazari-Hiriart, M., and A.M. Lerner. 2017. Urban resilience efforts must consider social and political forces. *Proceedings of the National Academy of Sciences* 114 (2), 186-189. Doi: [www.pnas.org/cgi/doi/10.1073/pnas.1620081114](http://www.pnas.org/cgi/doi/10.1073/pnas.1620081114)

17. Eakin, H., **Lerner, A.M.**, Hernández Aguilar, B., Manuel-Navarette, D., Tellman, B., Martinez-Canedo, A., Charli-Joseph, L., Fernandez Alvarez, R., and Bojórquez Tapia, L. 2016. Adapting to risk or perpetuating poverty? Tradeoffs among generic and specific capacities for managing flooding and water scarcity in Mexico City. *Environmental Science and Policy* 66, 324-333. Doi: <http://dx.doi.org/10.1016/j.envsci.2016.06.006>
18. Rudel, T.K., Kwon, O.J., Paul, B.K., Boval, M., Rao, I., Burbano, D., McGroddy, M., **Lerner, A.M.**, White, D., Cuchillo, M., Luna, M., y M. Peters. 2016. Do smallholder, mixed crop-livestock livelihoods encourage sustainable agricultural practices?: A meta-analysis. *Land* 5(6), 1-13.
19. McGroddy, M., **Lerner, A.M.**, Burbano, D., Schneider L, and T.K. Rudel. 2015. Effects of pasture management on carbon stocks: a study from four communities in southwestern Ecuador *Biotropica*. 47(4), 407-415.
20. Rudel, T., Paul, B., White, D., Rao, I.M., Van der Hoek, R., Castro, A., Boval, M., **Lerner, A.**, Schneider, L., Peters, M. 2015. Livestock-Plus: Forages, Sustainable Intensification, and the Food Security – Climate Change Dilemma *Ambio* 44(7), 685-693.
21. Feola, G., **Lerner, A.M.**, Nicholas, K., Jain, M., and M. Montefrio. 2015. Farmer response to multiple stresses in the face of global change: Lessons learned from five case studies. *Journal of Rural Studies* 39, 74-84.
22. **Lerner, A.M.\*** Rudel, T., Schneider, L., Burbano, D., McGroddy, M., and C. Mena. 2015. The Spontaneous Emergence of Silvo-pastoral Landscapes in the Ecuadorian Amazon: Patterns and Processes. *Regional Environmental Change* 15(7), 1421-1431.
23. **Lerner, A.M.\*** Sweeney, S. and H. Eakin. 2014. Growing buildings in corn fields: Urban expansion and the persistence of maize in the Toluca Metropolitan Area, Mexico. *Urban Studies* 51, 2185-2201.
24. **Lerner, A.M.\***, Eakin, H. and S. Sweeney. 2013. Understanding peri-urban livelihoods through an examination of maize production in the Toluca Metropolitan Area, Mexico. *Journal of Rural Studies* 30, 52-63.
25. Grace, K., Davenport, F., Funk, C., and **A.M. Lerner**. 2012. Child malnutrition and climate in Sub-Saharan Africa: An analysis of recent trends in Kenya. *Applied Geography* 35, 405-413.
26. **Lerner, A.M.\*** and K. Appendini. 2011. Dimensions of peri-urban maize production in the Toluca-Atlacomulco valley, Mexico. *Journal of Latin American Geography* 10(2), 87-106.
27. **Lerner, A.M.\*** and H. Eakin. 2011. An obsolete dichotomy? Rethinking the rural-urban interface in terms of food security and production in the global south. *The Geographical Journal* 177(4), 311-320.
28. Eakin, H., **Lerner, A.M.** and F. Murtinho. 2010. Adaptive capacity in evolving peri-urban spaces: Responses to flood risk in the Upper Lerma River Valley, Mexico. *Global Environmental Change* 20, 14-22.

## Book Chapters

1. **Lerner, A.M.** 2021. La agricultura como un componente crítico para la resiliencia urbana. In: *Sistemas Complejos y Agroecología*. Benítez, M, Rivera, T., and García L. (eds) Universidad Nacional Autónoma de México Press.

2. Bausch, C.J., Eakin, H., **Lerner, A.M.\*** 2018. Adaptation for Whom to What? Challenges and opportunities in agriculture-urban collaboration for climate change adaptation. In: *Climate Change in Cities: Multi-Level Governance and Innovations*, Hughes, S., Mason, S., and Chu, E.K. (eds). Springer International Publishing. Doi: <https://doi.org/10.1007/978-3-319-65003-6>
3. **Lerner, A.M.** and L. Charli-Joseph. 2018. Marcos teóricos para el estudio de los sistemas socio-ambientales. In: *Sistemas Socio-Ambientales Desde La Teoría A La Práctica: Caso De Oaxaca, México*. Avila, S and M. Perevochtchikova (eds). Universidad Nacional Autónoma de México Press.
4. Pfeiffer, E., When, U., Charli-Joseph, L., **Lerner, A.M.**, Irvine, K. 2017. Training sustainability change agents: Lessons from international water education. In: *Handbook of Theory and Practice of Sustainable Development in Higher Education, Volume 4*, Leal Filho, W. (ed), pp. 31-48. Springer International Publishing. Doi: 10.1007/978-3-319-47877-7\_3

### Academic Journal Articles – In Progress

1. Cid, A. & **Lerner, A.M.** Local governments as key agents in climate change adaptation: challenges and opportunities for local level institutional capacity-building in Mexico (*under review*).
2. Hernández Aguilar, B., Manuel-Navarrete, D., **Lerner, A.M.**, Siqueiros, J.M. Making informal water distribution work: collective agency in informal areas of Xochimilco, Mexico City (*under review*).
3. González-Padrón, S., **Lerner, A.M.**, Merino-Pérez, L. Change, transformation, and tensions associated with the Sustainable Development Goals in indigenous communities of the Sierra Wixárika, Jalisco, Mexico (*in process*).
4. Cid, A., **Lerner, A.M.**, Siqueiros, J.M. Mobilizing institutional capacities to adapt to climate change hazards: emergent adaptation strategies of local governments in Mexico City (*in process*).
5. Withycombe Keeler, L., Beaudoin, F., **Lerner, A.M.**, Cid, A., Fahy, A., Torney, D., Moran, C., Cowley. R. Building Transformative City-University Sustainability Partnerships: The Audacious Partnerships Process (*under review*)

### Book Chapters – In Progress

1. Hernández Aguilar, B., **Lerner, A.M.**, Tellman, B. El costo de la informalidad: el acceso al agua en cinco asentamientos de la periferia de la Ciudad de México (*in press*).
2. Tudela, E. and **A.M. Lerner**. Infraestructura verde como estrategia para fortalecer los vínculos entre la ciudad y su periferia e incrementar la resiliencia urbana (*under review*).
3. **Lerner, A.M.** Who and what belongs where: Ecological and social anxieties in the search of belonging (*under review*).

## NON-ACADEMIC PUBLICATIONS AND OUTREACH

1. Mazari Hiriart, M., Solares, M.J., **Lerner, A.M.** 2018. Retos y lecciones aprendidas en el posgrado de ciencias de la sostenibilidad de la UNAM. Oikos.  
<http://www.ecologia.unam.mx/oikos3.0/index.php/articulos/posgrado>
2. **Lerner, A.M.** and K. Nicholas. 2016. Why do farmers behave the way they do and make the decisions they make? Swedish International Agriculture Network Initiative (SIANI).  
<https://www.siani.se/blog/why-do-farmers-behave-way-they-do-and-make-decisions-they-make/>

## Radio and Television Interviews

1. Instituto Mexicano de la Radio – Interview on Radio Ciudadana XEDTL 660 AM for the program “Todo se aclara” with Lic. Mario Diaz Mercado, Aug 2, 2017.
2. Radio UNAM – Interview about socio-ecological systems, May 2, 2019
3. Televisión UNAM: La UNAM Responde, with the topic of Ciudades y sostenibilidad ante el COVID-19 – Live Interview, June 3, 2020
4. Interview for TV UNAM: Día Mundial del Medio Ambiente 2020 y La Hora de la Naturaleza, June, 2020

## TEACHING EXPERIENCE

**Associate Teaching Professor, University of California, San Diego (UCSD)**  
**Department of Urban Studies and Planning, La Jolla, California**

*USP 2 - Urban World System (2021)*

*USP 165B - Advanced Topics in Sustainability (2021)*

*USP 190 - Seminar for Honors Thesis (2021)*

*USP 171 – Sustainable Development (2021, 2022)*

*USP 125 - The Design of Social Research (2022)*

*ESYS 103 -- Environmental Challenges: Science and Solutions (2022)*

**Instructor, National Autonomous University of Mexico (UNAM),**  
**Graduate Program in Sustainability Science, Mexico City, Mexico.**

*Principles of Sustainability (2016, 2017, 2018)* – Required introductory graduate course. Designed course content, group project, individual and group assignments, visiting lecturers, and coordinated the course with other campuses across Mexico. The topic spans a diversity of frameworks for the study of human-environment interactions within a sustainability context.

*Tools for Transdisciplinary Research (2016, 2017, 2019)* – Required introductory graduate course. Collaboratively designed course content, individual and group assignments, visiting lecturers, and final group project which applied tools for transdisciplinarity in the case of water in Mexico City. The topic

includes participatory methods, facilitation, social network analysis, non-violent communication, and visual forms of communication.

*Global Change (2016, 2017, 2018, 2019, 2020)* – Required course for subset of graduate students. Collaboratively designed course content, course format, assignments, fieldtrips, and visiting lecturers. The topic includes the human dimensions of environmental change (causes, consequences, drivers), with a focus on climate change and Mexico City.

*Doctoral Seminar in Proposal Writing for Sustainability Research (2017, 2018, 2019, 2020)*  
Collaboratively designed writing seminar for doctoral students which produces the proposal they will use for their candidacy exam.

*Discussion Seminar on Sustainability and Socio-Ecological Systems with Arizona State University (2020)* Collaboratively designed weekly topics and discussions with students for collaborative sessions between ASU and UNAM.

**Adjunct Associate Professor, City College of New York, Department of Landscape Architecture, New York, NY**

*Urban Ecology (2013, 2014, 2015)* – Required graduate course for landscape architecture students. Collaboratively designed course content, organized fieldtrips, guest lecturers, and assignments. The content includes human-environment interactions in urban areas, understandings of nature of and in the city, urban environmental management, and case-studies within New York City.

**Adjunct Instructor, Hunter College, Macaulay Honors Seminar, New York, NY**

*Nature and Environment of New York City (2013)* – Seminar for honors students. Designed course content and parameters for student group project studying the use and perception of urban parks in NYC. Course covered topics of history and environmental management of NYC.

**Adjunct Instructor, Rutgers Department of Geography, New Brunswick, NJ**

*Population Geography (2012)* – Undergraduate elective course. Topics include demography, environmental change, and development.

*Geography of Latin America (2012)* – Undergraduate elective course. Topics include physical, cultural, economic, historical and environment of Latin America.

*World Cultural Regions (2013)* – Undergraduate elective course. Topics include physical geography and political economy of developing world regions, with an emphasis on environmental and socio-economic legacies of colonialism.

**Teaching Assistant, UCSB Department of Geography, Santa Barbara, CA**

*Population Geography, World Regions, Introduction to Human Geography, Society and Hazards, Latin American Geography (2006-2010)*

**Course Curriculum Development, ASU School of Sustainability, Tempe, AZ**



*Food Systems Sustainability (2008)* – Selected topics and readings for graduate seminar

## **UNDERGRADUATE MENTORING**

### *UCSD Environmental Systems Major*

2021-2022 Amy Wong  
2021-2022 Madhulika Garimella  
2021-2022 Wesley Nguyen  
2021-2022 Liliana Arevalo

### *UCSD Research Assistant Supervisor*

2021-2022 Ethan Olson  
2021-2022 Yichen Wang  
2021-2022 Parker Friederich  
2021-2022 Isabel Pérez  
2021-2022 Amy Wong

## **UCSD Undergraduate Summer Research Mentor**

2022 Ethan Olson (USP)  
2022 Valerie Lee (ESYS)

## **GRADUATE THESIS SUPERVISION**

### *UCSD Master's Program in Climate Science & Policy*

#### **Master's advisor**

2021-2022 Hayley Makinster

### *UNAM Graduate Program in Sustainability Science*

#### **Doctoral advisor**

2020-present Raymundo Sánchez (co-directed with Dr. Tuyeni Mwampamba)  
2020-present Abril Cid Salinas  
2017-present Beatriz Ruizpalacios Remus (co-directed with Dr. Mario Siqueiros)  
2016-present Patricia Pérez Belmont (co-directed with Dr. Marisa Mazari)  
2016-2022 Bertha Hernández Aguilar (completed January, 2022): *Informalidad, agencia colectiva y alternativas de dotación de agua: la problemática del acceso al agua en dos asentamientos informales de Xochimilco, Ciudad de México*  
2015-2021 Shiara González Padron (co-directed with Dr. Marisa Mazari; completed June, 2021): *Procesos de cambio hacia la sostenibilidad: Cosecha de lluvia en comunidades indígenas de la Sierra Wixarika, Jalisco, México*

Doctoral committee member: Patricia Manzano (2016-2022), Marcela Jiménez, Abisay Haro

#### **Master's advisor**

2020-present Michelle Morelos (co-directed with Dr. Fernanda Figueroa)  
2019-present María Fernanda Sánchez (completed May 13, 2022): *Transiciones rurales urbanas y escenarios futuros en la zona periurbana occidental de Puebla*

2015-2017 Beatriz Ruizpalacios Remus (completed May, 2017): *El manejo de residuos sólidos en un humedal en la frontera urbana: El caso de San Gregorio, Atlapulco, Xochimilco*

Master's committee member: Daniela Figueroa (completed December, 2017), Guadalupe Martinez (completed January, 2018), Irene Ramos (completed January, 2020), Sakiko Rivera (completed August, 2022)

*Arizona State University School of Sustainability*

**Doctoral Committee Member**

2016-2017 Julia Chrissie Bausch: *Farming for What, for Whom? Agriculture & sustainability governance in Mexico City* (completed May, 2017)

*Rutgers University Undergraduate Program in Environmental Policy*

**Undergraduate Committee Member**

2011-2012 Kelly Kemmerle, Senior Honors Thesis (completed May, 2012)

**DOCTORAL CANDIDACY EXAM COMMITTEE**

2020 Abisay Haro, Graduate Program in Sustainability Science, UNAM  
2019 Alison Acosta, Graduate Program in Sustainability Science, UNAM  
2019 Alma Palacios, Graduate Program in Sustainability Science, UNAM  
2018 German Wiies, Graduate Program in Biological Sciences. UNAM  
2018 Patricia Manzano, Graduate Program in Sustainability Science, UNAM  
2018 Patricia Pérez Belmont, Graduate Program in Sustainability Science, UNAM  
2018 Marcela Jiménez, Graduate Program in Sustainability Science, UNAM  
2017 Malena Oliva, Graduate Program in Sustainability Science, UNAM  
2017 Cristina González Quintero, Graduate Program in Sustainability Science, UNAM

**THESIS EXAM COMMITTEE**

**Master's**

2020 Mario Pérez Hernández, Graduate Program in Sustainability Science, UNAM  
2020 Jazmín Solís Carpio, Graduate Program in Sustainability Science, UNAM  
2019 Esther Román Aguilar, Graduate Program in Sustainability Science, UNAM  
2019 Enrique Lozada Rosendo, Graduate Program in Sustainability Science, UNAM  
2018 Dalia Méndez Funes, Graduate Program in Sustainability Science, UNAM  
2018 Guadalupe Martínez, Graduate Program in Sustainability Science, UNAM  
2017 Laura Daniela Figueroa, Graduate Program in Sustainability Science, UNAM  
2017 María Beatriz Ruizpalacios, Graduate Program in Sustainability Science, UNAM  
2016 Gabriela Romo, Graduate Program in Biological Sciences, UNAM  
2016 Bertha Hernández Aguilar, Graduate Program in Geography, UNAM

**Doctoral**

2020 Cristina González Quintero, Graduate Program in Sustainability Science, UNAM  
2020 Malena Oliva, Graduate Program in Sustainability Science, UNAM

2019 Andres Felipe Zuluaga, Graduate Program in Environmental and Rural Studies,  
Universidad Javeriana, Bogotá Colombia

**CONFERENCES AND PRESENTATIONS (underline denotes graduate students)**

- 2021 **Panel participant and presenter**, Conference of the Association of Environmental Studies and Sciences. “The Potential of Urban and Peri-Urban Agriculture for Sustainability Transformations: Connecting to Campesinos and Food Production in Mexico City.”
- 2020 **Invited presenter**, Everyday Ecologies, City College of New York Spitzer School of Architecture. “Who and what belongs where: Ecological and social anxieties in the search of belonging.”
- 2019 **Session organizer for graduate students**, Earth Governance, Oaxaca City, Oaxaca “Environmental degradation and service provision in the face of governance gaps: Exploring individual and community action across Mexico.”
- 2019 **Paper presenter**, American Association of Geographers, Washington DC “The potential for peri-urban agriculture in sustainability transformations: Lessons from Mexico City and beyond” with Patricia Pérez Belmont and Beatriz Ruizpalacios
- 2018 **Paper presenter**, Urban Affairs Association, Toronto, Canada “Rural-urban transitions at the mega-city fringe: Processes of change and future scenarios for Mexico City's last remaining wetland” with Patricia Pérez Belmont and Marcela Jiménez
- 2017 **Session organizer for graduate students**, Programme on Ecosystem Change and Society (PECS-II), Oaxaca City, Oaxaca “Transformations of social-ecological systems: pathways towards sustainable resilience in Mexico”
- 2017 **Paper presenter**, Programme on Ecosystem Change and Society (PECS-II), Oaxaca City, Oaxaca “Incorporating cultural ecosystem services into urban wetland management: The case of Xochimilco, Mexico City” with Beatriz Ruizpalacios
- 2017 **Co-author**, Transformations 2017, Dundee Scotland “Water as a pathway towards sustainability: How access to water can potentially transform an indigenous community in rural Mexico” with Shiara González
- 2017 **Paper presenter and session organizer**, Resilience 2017, Stockholm Sweden “Informality and socio-hydrological risk in Mexico City: Perpetuating vulnerability and/or fostering resistance within a megacity” with Hallie Eakin and Bertha Hernández, in the session: *Invisible yet crucial: Informal and clandestine dynamics in sustainability transformations in cities*

- 2017 **Paper presenter and session organizer**, American Association of Geographers, Boston MA “Understanding urban resilience in an evolving socio-ecological system: Thresholds of change in Xochimilco, Mexico City” in the session: *Methods and Approaches for Representing the Political Dimensions of Urban Resilience* with Patricia Pérez Belmont and Marcela Jiménez
- 2016 **Invited Presenter**, Resilient Cities Conference, Bonn, Germany  
“MEGADAPT: a framework for transforming social-hydrological risk in megacities” with Hallie Eakin
- 2016 **Paper Presenter**, Society for Applied Anthropology, Vancouver Canada  
“Understanding the interactions between socio-hydrological risk and urban expansion at the megacity fringe: The example of Mexico City” with Eakin, H., Tellman, B., Hernandez, B., Martinez, A., Bausch, C., and L. Charli-Joseph.
- 2015 **Poster Presenter**, Climate Smart Agriculture, Montpellier France “Classifying Livestock Systems for Public Policy Guidance: The Sustainable Intensification of Colombia’s Livestock Sector,” with Solano C., Martinez, J.M., Rivera, J.E., Chara, J., Herrero, M., Searchinger, T.
- 2014 **Presenter and Conference Organizer**, Princeton Studies Food Conference, NJ  
“Sustainable Intensification in the Tropics”
- 2014 **Paper Presenter & Panel Organizer**, Global Land Project Conference, Berlin, Germany. “The spontaneous emergence of silvo-pastoral landscapes in the Ecuadorian Amazon: Patterns and processes” with T. Rudel and L. Schneider
- 2013 **Paper Presenter**, Sociology of Development Conference, Salt Lake City, UT.  
“Women’s Agency and Perception of Vulnerability: A Qualitative Analysis of Breastfeeding, Contraception and Food Insecurity in Burkina Faso”
- 2013 **Paper Presenter**, Yale Food Systems Symposium, New Haven, CT. “The value of hybrid agricultural landscapes for agrobiodiversity conservation and carbon sequestration: Lessons from peri-urban and silvo-pastoral systems”
- 2013 **Paper Presenter**, Association of American Geographers Annual Meeting, Los Angeles, CA. “Seeing the pasture through the trees: Patterns and processes of silvo-pastoral landscapes in the Ecuadorian Amazon”
- 2013 **Panel Participant**, Association of American Geographers Annual Meeting, Los Angeles, CA. “Biodiversity Conservation and Compatibility with Agricultural Intensification”
- 2012 **Paper Presenter**, American Geophysical Union Annual Meeting, San Francisco, CA.  
“Seeing the pasture through the trees: A household model explaining silvo-pastoral landscapes in the Ecuadorian Amazon”
- 2012 **Panel Participant**, Association of American Geographers Annual Meeting, New York, NY. “Biodiversity and Food in the Context of Development and Climate Change”.

- 2012 **Paper Presenter**, Association of American Geographers Annual Meeting, New York, NY. “The spontaneous emergence of silvo-pastoral landscapes in the Ecuadorian Amazon” with Tom Rudel, Laura Schneider, Diana Burbano, Carlos Mena, Tuntiak Katan and Megan McGroddy.
- 2012 **Paper Presenter**, Association of American Geographers Annual Meeting, New York, NY. “Cross-scale implications of maize system change in Mexico” with Hallie Eakin, Stuart Sweeney, Candida Dewes and Frank Davenport
- 2012 **Paper Presenter**, Conference of Latin Americanist Geographers Annual Meeting, Merida, Mexico. “Rural-urban transitions in Latin America: Examples from the Sierra Madre to the Amazon”
- 2011 **Paper Presenter**, Association of American Geographers Annual Meeting, Seattle, WA. “Characterizing peri-urban space: Land-use and livelihoods across a rural-urban gradient in the Toluca Metropolitan Area, Mexico”
- 2010 **Poster Presenter**, International Conference on Urbanization and Global Environmental Change, Tempe, AZ. “Growing buildings in maize fields: The role of household maize production in the rural-urban interface of the Toluca Metropolitan Area, Mexico”
- 2010 **Paper Presenter**, Conference of Latin Americanist Geographers Annual Meeting, Bogota, Colombia. “The political, economic, and environmental context of peri-urban maize production in the Toluca Valley, Mexico” (In Spanish)
- 2010 **Paper Presenter & Panel Organizer**, Association of American Geographers Annual Meeting, Washington DC. “Drivers and outcomes of peri-urban maize production in the Toluca Valley, Mexico”
- 2009 **Paper Presenter**, Association of American Geographers Annual Meeting, Las Vegas, NV “Peri-urban growth, rural livelihoods, and food security in central Mexico”
- 2009 **Paper Presenter**, UCSB Interdisciplinary Humanities Center Conference, Food Sustainability and Food Security “Peri-urban growth, rural livelihoods, and food security in the developing world”
- 2008 **Paper Presenter**, Association of American Geographers Annual Meeting, Boston, MA “From Selling Elotes to Lotes: Flood risk on the peri-urban fringe in the Toluca Valley, Mexico.” Prepared with Dr. Hallie Eakin and Felipe Murtinho
- 2006 **Paper Presenter**, Interdisciplinary Graduate Student Conference, Brown University “Transboundary conservation planning for human and ecological values: A case study of the Moosup River Watershed”

## INVITED LECTURES

- 2021 **Invited Guest Speaker**, USP 2, UCSD. “Obsolete Dichotomies: Food urbanisms and rur-urban identities”

- 2020 **Invited Speaker**, Workshop on adaptive capacity and resilience for Mexico City - Capacidad adaptativa y resiliencia de la Ciudad de México y sus comunidades: integración de la ELAC 2021-2050 y del PACCM 2021-2030
- 2020 **Invited Speaker**, Seminar on Sustainable Cities in the Face of Climate Change, PUEC-UNAM. “Urban Expansion: Implications for the Environment and Environmental Justice under Climate Change”
- 2018 **Invited Speaker**, Seminar on Agriculture, Diet, and the City, PUEC-UNAM. “Opportunities and challenges for agriculture within the megalopolis in the face of global change”
- 2018 **Invited Speaker**, Certification Program in the Economics of Biodiversity, Biology Institute, UNAM. “An introduction and history of sustainability”
- 2018 **Invited Speaker**, Institutional Exchange of Experiences in Sustainability, ENES-UNAM, Leon. “Framing sustainability in the Graduate Program of Sustainability Science”
- 2017 **Invited Speaker**, XXI Certification Program in Science Communication, UNAM. “Sustainable Development”
- 2017 **Invited Speaker**, Workshop in Sustainable Cattle with Low Environmental Impact, Autonomous University of Yucatan, Merida, Mexico. “What is Sustainability?”
- 2016 **Invited Speaker**, Seminar for studies in socio-ecological systems in Oaxaca, Economics Research Institute, UNAM Mexico. “Theoretical frameworks for socio-environmental systems”
- 2016 **Invited Speaker**, Institute for Research in Ecosystems and Sustainability, UNAM, Morelia Mexico. “Theoretical frameworks for socio-environmental systems”
- 2016 **Invited Speaker**, Food system sustainability Course, School of Sustainability, Arizona State University. “Food and livelihoods”
- 2015 **Invited Speaker**, Graduate Program in Sustainability Science, UNAM, Mexico City, Mexico. “Connecting Theory and Tools for Sustainability: Frameworks of Socio-ecological Systems and Sustainable Livelihoods Analysis.”
- 2015 **Invited Speaker**, Baruch College School of Public Affairs, New York City, NY “Policy and Planning for Sustainable Livestock Landscapes in the Tropics.”
- 2015 **Invited Speaker**, Laboratorio Nacional de Ciencias de la Sostenibilidad, UNAM Mexico City, Mexico, “Barriers and opportunities for sustainable intensification: The example of livestock in Colombia”
- 2014 **Invited Speaker**, The New School Milano School of International Affairs, “The value of hybrid agricultural landscapes: Lessons from peri-urban and silvo-pastoral systems”
- 2014 **Invited Speaker**, Global Agenda for Sustainable Livestock, Cali Colombia “Agricultural Synergies: Sustainable Intensification of Colombia's Livestock Sector”

- 2013 **Guest Lecturer**, World Cultural Regions, Rutgers University “Drug Violence: Mexico and Plan Colombia”
- 2013 **Invited Speaker and workshop participant**, Center for Investigation of Tropical Agriculture (CIAT), Cali, Colombia, “Spontaneous Silvo-Pastoral Landscapes: Patterns and Processes in the Ecuadorian Oriente”
- 2013 **Invited Speaker**, McGill University Department of Geography, “Paving paradise: Understanding the rural-urban interface through the example of maize in central Mexico”
- 2012 **Invited Panelist**, Rutgers University Geography Workshop on Urban Natures, “Emerging concepts in Urban Natures: The rural-urban interface in Mexico”
- 2012 **Invited Speaker**, Seminar on vulnerability and adaptation to climate change in Mexico, sponsored by the Intergovernmental Panel on Climate Change (IPCC) and El Colegio de México, “Flood risk and livelihood change in peri-urban areas in the State of Mexico.”
- 2012 **Invited Speaker**, Rutgers University Department of Human Ecology and Initiative on Climate and Society “Food security in the face of urbanization, livelihood shifts, and climate change: The example of Mexican maize”
- 2012 **Invited Speaker**, La Universidad Tecnológica de México, Facultad de Arquitectura “Nuevas formas de urbanización: La interfase rural-urbana en México”
- 2012 **Invited Speaker**, El Colegio de México, Centro de Estudios Demográficos, Urbanos y Ambientales “Dimensiones de la producción de maíz peri-urbano en la Zona Metropolitana de Toluca.”
- 2011 **Guest Lecturer**, Geography of Latin America, Rutgers University, NJ “Mexico: Alternative economies”
- 2011 **Invited Speaker**, Segunda Feria del Libro de las Ciencias Sociales y las Humanidades, Colegio Mexiquense, Toluca, Mexico “Estrategias de producción y consumo del maíz en el Valle de Toluca-Atlacomulco.” With Kirsten Appendini and Guadalupe Quijada
- 2008 **Guest Lecturer**, Sustainable Worlds, School of Sustainability, Arizona State University “Population, Development, and Sustainable Futures”
- 2008 **Guest Lecturer**, Introduction to Human Geography Course, UC Santa Barbara, CA “Population, Development and Environment”

## UNIVERSITY SERVICE

### *University of California, San Diego*

- 2022-present Faculty Representative, UCSD Food Sustainability Focus Area
- 2021-present Faculty Mentor for USP at Roger’s Community Garden
- 2021-present Director, UC Global Food Initiative fellowship program at UCSD
- 2021-present Representative of the CCCE on the UCSD Open Space Committee
- 2021-present Member, Campus & Community Environment Committee of the Academic Senate

- 2021-2022 Member, Curriculum Committee, Urban Studies and Planning Department
- 2021-present Member, Advisory Committee for the Environmental Systems (ESYS) Major
- 2021 Alternate Representative Assembly Member for the Department of Urban Studies and Planning in the Academic Senate of UCSD
- 2020-2021 Member, Colloquium Committee, Urban Studies and Planning Department

*National Autonomous University of Mexico (UNAM)*

- 2017-2020 Representative for the Institute of Ecology in the Graduate Program in Sustainability Science, UNAM
- 2017-2020 Invited non-voting member of the Internal Council of the Institute of Ecology, UNAM
- 2017 Member of evaluation committee for an Associate Researcher Position in Agrobiodiversity and natural resources, Institute of Geography, UNAM
- 2017, 2019 Reviewer for research proposals, PAPIIT, DGAPA, UNAM

**EDITORIAL BOARDS AND JOURNAL REVIEWS**

- 2020-2023 Member, Editorial Board of the *Annals of the American Association of Geographers*, Nature and Society Area
- 2021-present Associate Editor, *Frontiers in Sustainable Food Systems*, Urban Agriculture Area

*Reviews*

1. *IPCC 5th Assessment Report*, Working group 2 (Impacts, Adaptation & Vulnerability): Chapter 7 Food Security and Food Production Systems and Chapter 9 Rural Areas
2. *African Journal of Agricultural Research*
3. *Agriculture and Food Security*
4. *Agriculture and Human Values*
5. *Agriculture Ecosystems and Environment*
6. *Agroecology and Sustainable Food Systems*
7. *Ambio*
8. *Annals of the American Association of Geographers* (2)
9. *Cities* (3)
10. *Conservation Letters*
11. *Current Opinion in Environmental Sustainability* (4)
12. *Development Policy Review*
13. *Development in Practice*
14. *Environment Development and Sustainability* (2)
15. *Environmental Education Research*
16. *Environmental Hazards*
17. *Environmental Politics*
18. *Frontiers in Sustainable Food Systems*
19. *International Forestry Review*
20. *International Journal of the Commons*
21. *International Regional Science Review*
22. *Journal of Agrarian Change*
23. *Journal of Latin American Geography*



24. *Journal of Planning Literature*
25. *Journal of Political Ecology*
26. *Journal of Rural Studies* (4)
27. *Land*
28. *Land-Use Policy* (2)
29. *Landscape and Urban Planning* (2)
30. *Political Ecology*
31. *Regional Environmental Change* (4)
32. *The Geographical Journal*
33. *Urban Climate*
34. *Urban Policy Research*
35. *Urban Studies*
36. *Wellbeing, Space, and Society*

## **INTERNATIONAL EXPERIENCE**

- |           |   |
|-----------|---|
| 2014-15   | <b>Post-doctoral Field Research</b> , Bogota and Cali, Colombia   |
| 2013      | <b>Collaborative Field Research</b> , Ouagadougou, Burkina Faso   |
| 2011      | <b>Post-doctoral Field Research</b> , Macas, Ecuador  |
| 2009-2010 | <b>Dissertation Field Research</b> , Toluca Valley and Mexico City, Mexico  |
| 2006-2011 | <b>Global Explorers</b> , Iquitos, Puerto Maldonado and Cuzco, Peru<br>Expedition leader for school group tours, focusing on sustainability and service |
| 2003      | <b>Bellavista Cloud Forest Reserve</b> , Tandayapa, Ecuador<br>Naturalist guide in a cloud forest reserve, giving tours in English and Spanish          |
| 2000      | <b>Stanford University Galapagos Field Seminar</b> , Ecuador  |
| 1998      | <b>The School for International Training</b> , Cultural/Natural Ecology, Venezuela  |
| 1997      | <b>The School for Field Studies</b> , Tropical Reforestation Program, Australia   |

## **MEMBERSHIPS AND VOLUNTEER WORK**

- |              |   |
|--------------|---|
| 2021-Present | <b>Member</b> , Association of Environmental Studies and Sciences                 |
| 2006-Present | <b>Member</b> , American Association of Geographers                               |
| 2007-2014    | <b>Member</b> , Conference of Latin Americanist Geographers                       |
| 2008-2015    | <b>Member</b> , Latin American Studies Association                                |
| 2006-2007    | <b>Committee Member</b> , UCSB Geography Sustainability and Colloquium Committees |
| 2007-2008    | <b>Committee Member</b> , UCSB Geography Outreach Committee                       |
| 2006-2008    | <b>Volunteer</b> , UCSB Geography Outreach at Cesar Chavez Elementary School      |

## **ADDITIONAL SKILLS**

- Microsoft Office, Geographic Information Systems (ArcGIS 10; QGIS), Environmental Remote Sensing (ENVI, IDRISI, ERDAS), SPSS, R, NVIVO, Dedoose
- Fluency in written and spoken Spanish
- Experienced in small-scale organic farming, gardening and nursery work