

Paula E. Stigler Granados

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EDUCATION

Ph.D. 2013 **University of California, San Diego & San Diego State University**
Joint Doctoral Program, PhD in Public Health, concentration Global Health

Dissertation Title: *Water, Culture and Environmental Health: Understanding Community Based Planning to Improve Health Outcomes in Vulnerable Populations*

M.S. 2009 **San Diego State University**
Public Health, concentration Environmental Health Sciences

B.A. 1998 **University of Texas at Austin**
Geography, concentration Environmental Resource Management
Anthropology, concentration in South American Studies

HONORS AND AWARDS

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| John J. Hanlon Award – San Diego State University | May 2009 |
| Outstanding Occupational and Environmental Health Student Award | May 2009 |
| San Diego State University Presidents Award | May 2008 |
| U.S. Environmental Protection Agency Region 9 Environmental Award | Apr 2007 |

TEACHING EXPERIENCE

Assistant Professor

January 2015- Present

UTHealth, Graduate School of Public Health – San Antonio, Texas

Department of Management, Policy and Community Health

Responsibilities include developing curriculum for the doctoral program in Community Health Practice, teaching Public Health related courses, engaging in research with faculty and professionals on campus and in the community, serving as the Global Health Concentration advisor, serving on dissertation committees for both masters and doctoral level students.

Courses taught include:

- Economic and Social Determinants of Health
- Community Based Participatory Research and Community Engagement
- Global Health Seminar
- CORE I, II and III – DrPH required courses for Community Health Practice

Committee Service includes:

- Faculty Council (Member): January 2017-present
- UT System-wide Eliminate Tobacco Campaign Steering Committee (Member): January 2017-present
- Scholarship Committee (Member): August 2016-present
- DrPH Preliminary Exam Committee (Chair): January 2016-present

- Delta Omega Honorary Society – Alpha Lota Chapter (Chair): January 2016-present

Adjunct Assistant Professor 2015-present
San Diego State University
 Graduate School of Public Health
 Conduct research and submit grants related to public health research

Instructor 2012 - 2014
San Diego State University
 Courses taught included:

- PH 782 Geographic Information Systems (GIS) and Public Health
- HHS 350 Applied International Health and Human Services

Teaching Assistant 2009-2011
San Diego State University
 PH 661 – Theoretical Foundations of Health Behavior
 PH 700 – Migrant Health Issues
 PH 666 - Health Promotion Program Planning and Assessment

RESEARCH EXPERIENCE

Principal Investigator 2015-present
Reducing the Burden of Neglected Parasitic Infections (NPIS) in the United States through Evidence-Based Prevention and Control Activities – Chagas Education and Outreach
 A five-year Cooperative Agreement grant with the Centers for Disease Control to provide education, awareness and new screening tools for health care providers on Chagas Disease. Lead the 125 member Texas Chagas Taskforce and serve as the Southern U.S. representative for the Global Chagas Consortium. Conduct trainings and workshops for physicians, health departments and veterinarians. Collaborate and conduct disease surveillance activities with partners from other academic institutions, regional state health departments, city health departments (all major Texas cities) and the CDC.

Principal Investigator 2015-2017
Water Pollution and Unconventional Oil and Gas Development in Frio County, Texas
 Conducted chemical and bacteriological ground water monitoring near fracking sites in Frio County, Texas. Analytics included fracking chemicals, heavy metals, dissolved gases, and extensive bacteriological sampling. Collected household surveys on health, environmental health literacy and water practices with residents living in Frio County. Worked closely with community members to interpret and disseminate water quality data in order to develop baseline and future monitoring plans.

Co-Principal Investigator 2012 - 2015
Mapping Vulnerable Populations to Climate Change in San Diego
 Developed a new model using social vulnerability index and environmental justice principles to map the most vulnerable communities in San Diego County to possible climate change impacts. Partnered with Dr. Richard Gersberg to incorporate sea-level rise scenarios into the vulnerability maps. Worked with local climate change partners, including the City and County of San Diego, University of San Diego and Scripps Institute of Oceanography to develop informational materials that translated the model and mapping data for the general public.

Research Associate and Development Director

2012 - 2017

Cigarette Butt Pollution Project, San Diego, CA

Researched policy options for tobacco waste projects funded by the Tobacco Related Disease Research Program. Helped to establish the San Diego based non-profit with Dr. Thomas Novotny and others as a leading tobacco waste resource at the state, national and international level. Also assisted with grant development and fundraising.

Research Associate

2011- 2012

San Diego State University

- *Tobacco Waste Toolkit*. Developed a state-wide toolkit for the California Department of Public Health regarding the impacts of tobacco waste on the environment and how to conduct and organize campus clean-up events for schools and universities.
- *Health Impacts of Border Crossings* project. Assisted with organizing a conference and publishing a white paper regarding the impacts of border crossings on the health of residents and workers in the San Diego/Tijuana border.

Principal Investigator

2007 - 2009

Water Quality as an Environmental Health Indicator

Drinking water quality and health assessment with indigenous communities in Baja California Mexico. Conducted a study to identify the correlation between improved drinking water infrastructure systems and decreased rates of gastrointestinal illnesses. Collected and analyzed water samples (bi-weekly) from two different communities in Baja California Mexico over the course of several years. Analysis included basic water chemistry in-situ monitoring (e.g. total dissolved solids, dissolved oxygen, pH) and bacteriological analysis using IDEXX. Community engagement, trainings of health *promotoras* for survey collection, community meetings and focus groups were also conducted as part of this research.

Co-Principal Investigator

2003-2004

Nitrate Modeling of the San Luis Rey River in the La Jolla Tribal Reservation. Weekly water monitoring was conducted over the course of one year. Samples were taken at multiple sites along the river and analyzed in-situ for basic water chemistry, including nitrates/ammonia as well as bacteriological sampling.

OTHER PROFESSIONAL EXPERIENCE**Project Lead**

July 2011-Present

Engineers Without Borders – San Diego and Alamo Professional Chapters

Rainwater Capture and Filtration Project in El Salvador. Design, build and maintain 25 rainwater capture systems for a small, rural community in El Salvador. Lead a group of rotating volunteers in both planning and implementation of all aspects of the project. Project management includes: conducting community meetings, coordinating travel, working with in-country contractors, purchasing materials, developing water monitoring plans, in-country water monitoring, operation and maintenance designs and trainings, community health survey design and implementation, evaluation development and fundraising activities. Travel to the community is on average every year as the systems are being built a few at a time due to funding and time constraints. Twenty-one of the twenty-five systems have been finished as of September 2017.

Consultant

2016 – present

Legal Expert Witness Consultant for Olga Brown Legal Services. Provide expert consulting services on environmental health, water and wastewater cases. Recently completed an inspection report for a case of trailer park violations for sewage discharges and overflowing septic systems.

Tribal Liaison and Environment Program Manager

2007 - 2010

The San Diego Foundation, San Diego, CA

Created the Tribal Environmental Health Collaborative, which consisted of a consortium of 13 local tribal environmental agency representatives working on important environmental health problems within their communities. Conducted community asset mapping and needs assessments with tribal communities and worked to develop funding proposals for projects to address community priorities. Developed water quality and sanitation projects with several local tribes. Managed a \$2 million annual grant making program for both tribal and non-tribal environmental grantees. Conducted grant management activities such as evaluation, development and tracking of grantee projects. Successfully raised more than \$1.3 million in outside funding for the environment program, which was used for re-granting and salary.

Consultant – Grant Writing and Fund Development

2007 - 2013

PS Consulting, San Diego, CA

Consulted on research projects, grant writing and fund development. Assisted non-profit organizations, independent business owners and academics with researching grant opportunities, grantwriting, developing donor databases and setting long term fundraising plans. Raised over \$2.1 million in successful grants.

Fellow, Environmental Public Health Leadership Institute

2007- 2008

Center for Disease Control, Atlanta GA

Completed a one-year fellowship with the CDC that focused on leadership and training in the field of environmental health in order to be better able to respond to emerging environmental public health threats and coordinate the delivery of effective services to areas affected by environmental disasters.

Water Consultant

2007-2009

Conducted water quality assessments for local San Diego tribal communities, which included field sampling, laboratory analysis and training tribal environmental office employees on sampling techniques and analysis. Completed drinking water Well-head Protection Plans for three local tribes, which were submitted to and successfully accepted by the U.S. Environmental Protection Agency to gain funds for tribal drinking water systems.

Water Master and Tribal Drinking Water System Operator Training Program

2007-2008

Completed a one-year training program to become certified as a small rural drinking water system operator through the tribal training program funded in part by the U.S. Environmental Protection Agency. The curriculum for the training program included water chemistry analysis, hydrology, water system operations, and maintenance.

Project Director

2005 - 2009

Pala Band of Mission Indians, Pala CA

Border Water Infrastructure Project. Served as a project lead consultant for three water infrastructure and capacity building projects in Baja California, Mexico indigenous communities. The project consisted of conducting system assessments of Baja California Mexico tribal communities and determining best fit solutions for new drinking water infrastructure. The project required close collaboration with both U.S., Mexico and Tribal government entities to determine appropriate infrastructure solutions.

Air Quality Specialist

2005 - 2007

Pala Band of Mission Indians, Pala CA

Coordinated and directed the tribal air monitoring program by researching and identifying air quality issues, developing and managing air quality databases and building working relationships with Federal, State and

local government environmental programs. Received extensive training through the Tribal Air Quality training programs and raised more than \$1 million in funding from government grants for the air monitoring program.

Water Monitoring

Summer 2003

Southern California Coastal Water Research Project, San Diego, CA

Mission Bay Epidemiological Study. Collected water samples from Mission Bay and assisted with laboratory analysis. Assisted with development of health surveys, recruitment design and implementation.

Program Coordinator, Environmental Health and Justice Initiative

2001 - 2005

The San Diego Foundation, San Diego, CA

Created strategies for reducing exposure to toxic pollutants and strengthening community resources for local San Diego tribes and migrant farmworker communities. Conducted needs assessments in both tribal and migrant farmworker communities throughout San Diego County. Led community trainings for environmental health protections for Mixtec/Zapotec community members. Worked closely with the Rural Farmworkers Association and Vista Community Clinic to meet the needs of their populations via grant-making and needs assessment activities.

PUBLICATIONS

Stigler Granados P (2017). Public Health Concerns and Unconventional Oil and Gas Development. In Schug K and Hildenbrand Z (Eds.), *Environmental Issues Concerning Hydraulic Fracturing, Volume 1*. Elsevier Publishing. Release date November 1, 2017.

Stigler Granados P, Quintana PJE, Gersberg R, Novotny T, Zúñiga ML. (2014) Comparing health outcomes and point-of-use water quality in two rural indigenous communities of Baja California, Mexico before and after receiving new potable water infrastructure. *Journal of Water, Sanitation and Hygiene for Development*, 04.4.

Curtis C, Collins S, Cunningham S, **Stigler Granados P**, Novotny T. (2014) Extended Producer Responsibility and Product Stewardship for Tobacco Product Waste. *International Journal of Waste Resources*, 4:3.

Javadian, S., **Stigler Granados P**, Curtis, C., Thompson, F., Huber, L., & Novotny, T. E. (2015). Perspectives on Tobacco Product Waste: A Survey of Framework Convention Alliance Members' Knowledge, Attitudes, and Beliefs. *International journal of environmental research and public health*, 12(8), 9683-9691.

Quintana, P. J., Ganster, P., **Stigler Granados P**, Muñoz-Meléndez, G., Quintero-Núñez, M., & Rodríguez-Ventura, J. G. (2015). Risky Borders: Traffic Pollution and Health Effects at US–Mexican Ports of Entry. *Journal of Borderlands Studies*, 1-21.

Cuomo R. E., Mackey T. K., & **Stigler P** (2015). The economics of counterfeit Avastin: a geospatial and statistical analysis of demographic correlates to FDA warning letters. *Pharmacoepidemiology and drug safety*.

PUBLICATIONS IN REVIEW

Stigler Granados P, Hildenbrand Z, Whitworth K, Mata C, Valerio M, Carlton D, Santos I, Martin M, and Schug K. *Community health survey and water quality monitoring of drinking water wells near unconventional oil and gas development in Frio County, Texas*. Manuscript under review: Environmental Health Perspectives.

Santos I, Martin M, Reyes M, Carlton D, **Stigler Granados P**, Valerio M, Whitworth K, Hildenbrand Z, Schug K. *Exploring the links between groundwater quality and bacterial communities near unconventional oil and gas extraction activities*. Manuscript under review: Science of the Total Environment

Martin M, Santos I, Carlton D, **Stigler Granados P**, Hildenbrand Z, Schug K. *Characterization of bacterial diversity in contaminated groundwater using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry*. Manuscript under review: Science of the Total Environment

Hildenbrand Z, Carlton D, Wicker P, Habib S, **Stigler Granados P**, and Schug K. *Characterizing anecdotal claims of groundwater contamination in shale energy basins*. Manuscript under review: Environmental Science and Technology

PROFESSIONAL SERVICE ACTIVITIES

Scientific Review Panel 2017 - present
City of San Antonio – Office of Sustainability
Climate Action Plan for the City of San Antonio

Reviewer for the following journals: 2014 - present

- Journal of Water, Sanitation and Hygiene for Development
- Journal of Water and Health
- Open Water Journal
- PloS ONE
- American Journal of Tropical Medicine & Hygiene
- Journal of Wildlife Diseases
- American Public Health Association abstract review
- Texas Public Health Association abstract review

Past Service

U.S. and Tribal Co-Chair 2005 - 2014
U.S. Environmental Protection Agency's Border 2012/2020
San Diego-Tijuana Border Air Quality Taskforce.

Committee Member 2005 - 2010
U.S. Environmental Protection Agency's Border 2012/2020
Tijuana Watershed Water Quality Taskforce

Volunteer 2001 - 2008
San Diego Coastkeeper
Conducted water monitoring and trainings for volunteers

PROFESSIONAL PRESENTATIONS

2017 *Water pollution, fracking and public health*. Shale Science Symposium. Dallas, TX. Presentation.

2017 *Water monitoring near unconventional oil and gas development*. Institute of Integrated Medicine and Sciences Conference. San Antonio, TX.

2017 *Chagas Disease and Health Care Provider Awareness*. Texas Public Health Association Conference. Irving, TX.

2017 *Chagas Disease in the Americas: who is at risk and what do our health care providers know about the disease*. Houston Global Health Consortium SUSTAIN Conference. Houston, TX.

2017 *Update on Chagas Disease Outreach and Education Efforts in Texas*. James Steele in Nature

Transmissible to Man Conference. Dallas, TX.

- 2016** *Chagas Disease in the U.S.* Texas Public Health Association Conference. Galveston, TX.
- 2016** *Healthcare Provider Awareness of Neglected Tropical Diseases in the U.S.* International Conference of Entomology. Orlando, FL.
- 2016** *Chagas Disease Education and Outreach for Health Care Providers in the Military.* San Antonio Military Health System & University Research Forum (SURF). San Antonio, TX.
- 2016** *Understanding the prevalence and barriers to treatment of Chagas Disease in the U.S.* American Veterinary Medicine Association. San Antonio, TX.
- 2016** *Chagas Disease in Texas: Building Awareness to Better Understand Prevalence.* James Steele in Nature Transmissible to Man Conference. San Antonio, TX.
- 2015** *Chagas Disease Education and Outreach.* San Antonio Military Health System & University Research Forum (SURF). San Antonio, TX.
- 2013** *Improved drinking water infrastructure in indigenous communities: A framework for inclusion of cultural beliefs and community participation in planning clean water projects.* American Public Health Association Conference. Boston, MA.
- 2013** *Water in La Chiripa.* American Public Health Association Conference. Boston, MA.
- 2013** *Building Healthy Communities.* Engineers Without Borders USA West Coast Regional Conference. San Diego, CA.
- 2012** *Air quality and border crossings.* Health Impacts of Border Crossings Conference. San Ysidro, CA.
- 2008** *Drinking water and environmental health indicators,* American Public Health Association Conference. San Diego, CA.
- 2007** *Improved drinking water infrastructure: management and community health in rural border indigenous communities of Baja California, Mexico.* Environment Federation Technical Environmental Conference. San Diego, CA.
- 2006** *Community health in the border indigenous communities of Baja California, Mexico.* National Tribal Science Forum. Ocean Shores, WA.
- 2006** *Border tribal environmental health priorities.* US EPA Border Environmental Health Working Group. Brownsville, TX.
- 2005** *Baja indigenous community's environmental health issues.* Good Neighbor Environmental Board Meeting. Tucson, AZ.
- 2005** *Cross-border tribal water infrastructure projects.* Annual EPA Region IX Tribal Conference. Chukchansi, CA.

NON-REFEREED PUBLICATIONS

- 2017** *Tobacco and its Environmental Impact: an overview.* World Health Organization. Contributing Author. <http://apps.who.int/iris/bitstream/10665/255574/1/9789241512497-eng.pdf?ua=1>
- 2012** *Tobacco waste reduction toolkit.* California Department of Public Health.
- 2012** *Current research and issues with air quality due to traffic at US Mexico border crossings.* San Diego State University. White Paper.

2007 *Improved drinking water infrastructure: management and community health in rural border indigenous communities of Baja California, Mexico.* Environment Federation Technical Environmental Conference. San Diego, CA. White paper.

2006 *Community health in the border indigenous communities of Baja California, Mexico.* National Tribal Science Forum. Ocean Shores, WA. Conference abstract.

PROFESSIONAL POSTER PRESENTATIONS

2017 *Chagas Disease Education and Outreach for Health Care Providers in the Military.* Military Health System Research Symposium (MHSRS). Orlando, FL.

2016 *Chagas Disease Education and Outreach for Health Care Providers in the Military.* San Antonio Military Health System & University Research Forum (SURF). San Antonio, TX.

2013 *Identifying and mapping impacts of climate change on vulnerable communities.* American Public Health Association Conference. Boston, MA. Poster presentation.

CURRENT GRANTS

Cooperative Agreement (Principal Investigator - \$544,329)

August 2015 - July 2020

Centers for Disease Control

Reducing the Burden of Neglected Parasitic Infections (NPIS) in the United States through Evidence-Based Prevention and Control Activities

PREVIOUS GRANTS

Research Grant (Principal Investigator - \$50,000)

May 2015

Institute for Integrated Medicine/University of Texas Health Science Center San Antonio

Assessing groundwater quality impacts of fracking in Frio, County Texas.

Research Grant (Co-Principal Investigator - \$15,000)

July 2013

The San Diego Foundation

Climate Change and Vulnerable Populations in the US Mexico Border Region

Research Grant (Co-Principal Investigator - \$49,000)

July 2012

The San Diego Foundation

Climate Change and Vulnerable Populations in the US Mexico Border Region

Project Grant (Grant writer - \$50,000)

February 2011

Libra Foundation

Sustainable Energy and Green Jobs for Low Income Communities Project

Project Grant (Grant writer - \$250,000)

Ford Foundation

Research and development for Environmental Justice Initiatives

Project Grant (Principal Investigator – \$510,000)
January 2009
California Endowment
Building Healthy Communities through the Built Environment

Project Grant (Principal Investigator - \$190,000)
July 2009
The California Wellness Foundation
San Diego Tribal Environmental Health Initiative

Project Grant (Principal Investigator - \$55,000)
March 2008
Border 2012 U.S. EPA
Baja California Indigenous Community Solid Waste Management Project

Project Grant (Principal Investigator - \$118,000)
January 2007
Pan American Health Organization
Gastrointestinal Illness as Environmental Indicators in Two Indigenous Communities of Baja California, Mexico

Project Grant (Principal Investigator - \$200,000)
July 2006
The California Wellness Foundation
San Diego Tribal Environmental Health Initiative

Project Grant (Principal Investigator - \$420,000)
January 2006
California Endowment
San Diego Tribal Environmental Health Collaborative Project

Project Grant (Principal Investigator - \$100,000)
May 2006
Border 2012 U.S. EPA
Baja California, Mexico Community Drinking Water Infrastructure Project

Project Grant (Principal Investigator - \$56,000)
May 2006
Border 2012 U.S. EPA
Baja California, Mexico Community Water System Capacity Building Project.

Research Grant (Co-Principal Investigator - \$15,000)
July 2004
The San Diego Foundation
Nitrate Modeling of the San Luis Rey River in the La Jolla Tribal Reservation

Research Grant (Co-Principal Investigator - \$75,000)
July 2003
The San Diego Foundation

GRANTS SUBMITTED (UNDER REVIEW)

Research Grant (Principal Investigator - \$250,000)

National Institutes of Health

R21 - Environmental Health Literacy

OTHER EXPERIENCE AND SKILLS

- Field and lab water monitoring/analysis
- Water monitoring planning and design
- Rainwater capture system design (small and large scale)
- Community Based Participatory Research
- Geographic Information Systems (GIS)
- Operation and maintenance of rural water and sanitation systems
- Design and operation of air monitoring networks
- Monitoring and evaluation experience
- Survey development

Languages

Fluent in speaking, reading, and writing English

Fluent in speaking and reading Spanish, proficient in writing Spanish

