

# Vania Wang, M.P.H.

XXX Ellison Hall  
Department of Geography  
University of California, Santa Barbara

Cell (US): XXX  
Email: vaniawang@ucsb.edu  
Website: www.vaniaw.com

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## Research Interests

Developing mapping methods for unplanned human settlements in least developed countries using **volunteered geographic information** and **agent-based stochastic simulation**; **Population size estimation** of networked HIV key populations by using three-source capture-recapture and online **respondent driven sampling** methods.

## Education

expected 2021	<b>University of California Santa Barbara, Santa Barbara, CA</b> <ul style="list-style-type: none"><li>• Ph.D. in Geography</li><li>• Thesis: <i>WeMap: A methodology to map unplanned settlements using volunteered geographic information</i></li><li>• Advisor: Susan Cassels (Geography)</li></ul>
2015	<b>University of California Berkeley, School of Public Health, Berkeley, CA</b> <ul style="list-style-type: none"><li>• M.P.H. in Infectious Diseases and Vaccinology</li><li>• Thesis: <i>Quantifying catalase levels in patients with active pulmonary tuberculosis and type-2 diabetes mellitus in Mysore, Karnataka State, India</i></li><li>• Advisor: Lee Riley (Epidemiology and Infectious Diseases)</li></ul>
2010	<b>University of Washington, Seattle, WA</b> <ul style="list-style-type: none"><li>• B.S. in Microbiology with College Honors</li><li>• Thesis: <i>Induction of tertiary lymphoid organs by lymphotoxin alpha and beta</i></li><li>• Advisor: Gregory Holt (Oncology)</li></ul>

## Research Grants In Progress

2019—present	Principal Investigator & NIH Fogarty Global Health Fellow <i>WeMap: A methodology to map unplanned settlements using volunteered geographic information</i> PI: Vania Wang NIH/FIC Health Fellowship & NSF Competitive Innovation Incentive Funds
2017—present	Principal Investigator & ASPPH Global Health Fellow <i>Population size estimation of the men who have sex with men population using a three-source capture-recapture methodology in Kunming City, Yunnan Province, China</i> PI: Vania Wang US Centers for Disease Control & PEPFAR cooperative agreement [5NU2GGH001153]
2016—2017	Principal Investigator & ASPPH Global Health Fellow <i>Formative assessment to inform a mobile application-based respondent-driven-sampling survey and population size estimation among the men who have sex with men and transgender women key populations in Kunming City, Yunnan Province, China</i> PI: Vania Wang US Centers for Disease Control & PEPFAR cooperative agreement [5NU2GGH001153]

## Fellowships & Grants

2019—present	Fogarty International Center Health Fellowship National Institutes of Health, UC Global Health Institute Consortium \$15,000 research support, tuition, stipend, insurance, and travel Award: NIH/FIC5D43TW009343
2019	Competitive Innovation Incentive Funds National Science Foundation \$14,470 research support Award: DGE1258507
2017—2019	Integrative Graduate Education & Research Traineeship National Science Foundation tuition, stipend, and insurance Award: DGE1258507
2015—2017	Allan D. Rosenfield Global Health Fellowship US Centers for Disease Control & Association of Schools and Programs of Public Health stipend, training, travel support Award:

## Peer-Reviewed Publications

- 2017 | Hu, R., Zhang, F., **Wang, Vania**, Dou, Z., Shepard, C., Zhao, D., Liu, X., Mu, W., Wu, Y., Zhao, H., and Li, H. (2017). Comparing outcomes of HIV-infected Chinese adults on antiretroviral therapy by CD4 count at treatment initiation: A nationwide retrospective observational cohort study, 2012-2014. *AIDS patient care and STDs*, 31(10):413–420
- 2009 | Kalet, I. J., Mejino, J. L. V., **Wang, Vania**, Whipple, M., and Brinkley, J. F. (2009). Content-specific auditing of a large scale anatomy ontology. *Journal of Biomedical Informatics*, 42(3):540–549

## Manuscripts Under Review

- 2019 | Wang, L., Podson, D., Chen, Z., Lu, H., **Wang, Vania**, Shepard, C., Williams, J., and Mi, G. (2019). Using the push-messaging functionality in the BlueD geosocial app to increase HIV testing among men who have sex with men in Beijing, China 2015-2017. (in press)

## Manuscripts In Progress

- 2019 | **Wang, Vania**, Ma, J., Wang, L., Manhong, J., Mi, G., Fei, Y., Shepard, C., Li, Y., Wang, J., Chen, Z., Li, D., Zhang, D., and Hladik, W. (2019b). Estimating the population size of men who have sex with men using a three-source capture-recapture methodology in Kunming Prefecture, Yunnan Province, China. (unpublished)

## Scientific Presentations

- 2019 **Wang, Vania**, Griffith, B., Foko, C., Kawuma, A., and Pearson, C. (2019a). Using stochastic simulation to inform the design of emergency intervention trials in low- and middle-income countries. In *Using stochastic simulation to inform the design of emergency intervention trials in low- and middle-income countries*. 10<sup>th</sup> Annual Consortium of Universities for Global Health. (oral presentation)
- 2018 **Wang, Vania**, Griffith, B., Foko, C., Kawuma, A., and Pearson, C. (2018). Using stochastic simulation to inform the design of emergency intervention trials in low- and middle-income countries. In *Using stochastic simulation to inform the design of emergency intervention trials in low- and middle-income countries*. UC Santa Barbara Graduate Simulation Seminar Series. (oral presentation)
- 2018 **Wang, Vania** and Cassels, S. (2018a). Formation of sexual ties: determinants of sexual bridging among men who have sex with men and women in Seattle, Washington State. In *Formation of sexual ties: determinants of sexual bridging among men who have sex with men and women in Seattle, Washington State*. XXXVIII International Sunbelt Social Network Conference. (poster presentation)
- 2018 **Wang, Vania** and Cassels, S. (2018b). Formation of sexual ties: determinants of sexual bridging among men who have sex with men and women in Seattle, Washington State. In *Formation of sexual ties: determinants of sexual bridging among men who have sex with men and women in Seattle, Washington State*. Clinic on Meaningful Modeling of Epidemiological Data. (poster presentation)
- 2007 **Wang, Vania** and Samudrala, R. (2007). Determining three-dimensional structures using crosslinking and mass spectrometry. In *Determining three-dimensional structures using crosslinking and mass spectrometry*. University of Washington 10<sup>th</sup> Annual Undergraduate Research Symposium. (poster presentation)

## Research Appointments

- 2014—2015 Graduate Researcher  
*Quantifying catalase levels in patients with active pulmonary tuberculosis and type-2 diabetes mellitus in Mysore, Karnataka State, India*  
 PI: Vania Wang  
 UC Berkeley, School of Public Health & J.S.S. Medical College
- 2008—2010 Research Assistant  
*Immune modulation as a therapeutic strategy for non-small-cell lung cancer*  
 PIs: Drs. Gregory Holt and Mary Disis  
 University of Washington, Department of Oncology
- 2007—2008 Research Assistant  
*Clinical Target Volume Project*  
 PI: Dr. Ira Kalet  
 University of Washington, Department of Bioinformatics
- 2006—2007 Research Assistant  
*Determining three-dimensional structures using crosslinking and mass spectrometry*  
 PI: Dr. Ram Samudrala  
 University of Washington, Department of Microbiology
- 2008 Undergraduate Researcher  
*Water quality assessment of naulas in Nainital District, Uttarakhand, India*  
 PI: Vania Wang  
 University of Washington, Department of Microbiology

## Public Health Leadership

2013—2015	Board Member Center for Health Leadership, UC Berkeley School of Public Health
2014	Intern Prerana Women's Health Initiative, Mysore, India
2010—2012	Community Health Facilitator US Peace Corps, Efate Island, Vanuatu
2008—2010	Secretary University of Washington, Global Public Health Brigades
2008	Primary School Volunteer Central Himilayan Rural Action Group, Nainital, India

## Honors & Awards

2019	Jack and Laura Dangermond Travel Fund (\$600) UC Santa Barbara, Department of Geography
2018	Jack and Laura Dangermond Travel Fund (\$500) UC Santa Barbara, Department of Geography
2018	Graduate Student Research and Training Grants in Demography (\$175.42, <i>declined</i> ) UC Santa Barbara, Broom Center for Demography
2017	Unsung Hero Team Award US Centers for Disease Control
2014	Maharaj Kaul Memorial Research Travel Grant (\$1,000) UC Berkeley, Institute for South Asian Studies
2014	Lois A. Rifkin Scholarship (\$1,500) UC Berkeley, School of Public Health
2014	Center for Global Public Health Practice Fellowship (\$4,500) UC Berkeley, Center for Global Public Health
2013—2014	Foreign Language and Area Studies Fellowship (stipend, tuition, insurance) UC Berkeley & US Department of Education
2013—2015	School of Public Health Full Fellowship Award (stipend, tuition, insurance) UC Berkeley, School of Public Health
2010	Microluminescence Teaching Award (\$500) University of Washington, Department of Microbiology
2010	Bonderman Travel Fellowship ( <i>finalist</i> ) University of Washington Honors Program
2008	Americorps Service Award (\$3,500) Americorps
2005	University of Washington Academy for Young Scholars entrant University of Washington, Robinson Center for Young Scholars

## Teaching

2018	Physical Geography: Oceans & Atmospheres ( <i>Geog 3A</i> ) Teaching Assistant
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	UC Santa Barbara, Department of Geography
2015	Principles of Infectious Diseases ( <i>Public Health 260B</i> ) Teaching Assistant UC Berkeley, School of Public Health
2010	General Microbiology Laboratory ( <i>Microm 302</i> ) Laboratory Instructor University of Washington, Department of Microbiology
2009	General Microbiology Laboratory ( <i>Microm 302</i> ) Laboratory Instructor University of Washington, Department of Microbiology

## Academic Service

2018—2019	Member, Urban Inequalities & Health Disparities Faculty Search Committee UC Santa Barbara, Department of Geography
2018—2019	Graduate Representative, Graduate Student Association UC Santa Barbara, Department of Geography
2018—2019	Board Member, Graduate Simulation Seminar Series UC Santa Barbara, Center for Scientific Computing

## Technical Skills

<i>Computing</i>	R, Python, Java, L <sup>A</sup> T <sub>E</sub> X
<i>Languages</i>	Mandarin Chinese (fluent), Bislama (fluent), Taiwanese (intermediate), Hindi (basic), Spanish (basic)
<i>Laboratory</i>	bacterial and tissue culture, ELISA, DNA/RNA extraction, PCR, Western Blot, recombinant DNA technology

## Professional Affiliations

2019—present	Member, Consortium of Universities in Global Health
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