

HARVARD MEDICAL SCHOOL

CURRICULUM VITAE

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Place of Birth: Morris, IL

Education

1997	AS	Nursing <i>summa cum laude</i>	Norwich University	Northfield, VT
1999	BS	Biology <i>summa cum laude</i>	Norwich University	
2003	PhD	Pathobiology (Advisor Roberto <i>Docampo</i>)	University of Illinois at Urbana-Champaign	Urbana, IL
2007	MD	Medicine <i>With distinction</i>	University of Illinois at Urbana-Champaign	

Postdoctoral Training

05/2003- 09/2005	Post-doctoral Fellow	Pathobiology (Mentor Roberto <i>Docampo</i>)	University of Illinois at Urbana-Champaign	Urbana, IL
06/2008- 12/2012	Residency	Internal Medicine	Brigham and Women's Hospital (BWH)	Boston, MA
06/2008- 12/2012	Residency	Pediatrics	Boston Children's Hospital (BCH)	Boston, MA

06/2008-12/2012	Residency	Pediatrics	Boston Medical Center	Boston, MA
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Faculty Academic Appointments

01/2008-05/2008	Clinical Instructor	Medicine	University of Illinois at Urbana-Champaign	Urbana, IL
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03/2009-12/2012	<i>Ad hoc</i> Faculty	Anthropology (non-voting)	University of Kansas	Lawrence, KS
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01/2013-08/2017	Instructor	Medicine	Harvard Medical School (HMS)	Boston, MA
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09/2017-present	Assistant Professor	Medicine	HMS	Boston, MA
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Appointments at Hospitals/Affiliated Institutions

01/2013-present	Associate Physician	Department of Medicine, Division of General Internal Medicine (DGIM)	Brigham and Women's Hospital	Boston, MA
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01/2013-present	Associate Physician	Department of Medicine	Brigham and Women's Faulkner Hospital (BWFH)	Jamaica Plain, MA
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01/2013-present	Associate Physician	Department of Medicine, Division of Global Health Equity (DGHE)	Brigham and Women's Hospital	Boston, MA
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02/2014-present	Associate Physician	Department of Medical Oncology, Hospitalist Division	Dana Farber Cancer Institute	Boston, MA
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12/2014-present	Adjunct Faculty	Department of Medicine, Global Pediatrics Program	Boston Children's Hospital	Boston, MA
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Other Professional Positions

2008	Research Professional	Center for Tropical and Emerging Global Disease	University of Georgia	Athens, GA
2008	Guest Curator	Spurlock Museum	University of Illinois at Urbana-Champaign	Urbana, IL
2014-2015	Member	Scientific Advisory Board	Possible Health	New York, NY

Major Administrative Leadership Positions

Local Positions

2016-present	Assistant Director	Nocturnist Hospitalist Service	Brigham and Women's Hospital	Boston, MA
2017-present	Director	Global Health Track, Hospital Medicine	Brigham and Women's Hospital	Boston, MA

International Positions

2007-2009	Executive Director		Wuqu' Kawoq Maya Health Alliance	Santiago Sacatepéquez, Guatemala
2009-2014	Medical Director		Wuqu' Kawoq Maya Health Alliance	Santiago Sacatepéquez, Guatemala
2015-present	Chief Medical Officer (5 hours/week)		Wuqu' Kawoq Maya Health Alliance	Santiago Sacatepéquez, Guatemala

Committee Service

Local Positions

2005-2006	Member	Introduction to Clinical Medicine Committee	Department of Medicine, University of Illinois at Urbana-Champaign	Urbana, IL
2015-present	Member	Nocturnist Faculty Search Committee	Brigham and Women's Hospital	Boston, MA

Regional Positions

2009-2014	Member	Doctoral Thesis Committee	Department of Anthropology, University of Kansas (Candidate: Anne Kraemer Díaz)	Lawrence, KS
2010-2012	Member	Master's Thesis Committee	Department of Anthropology, University of Florida (Candidate: Caitlin Baird Peterson)	Gainesville, FL
2012-present	Member	Doctoral Thesis Committee	Department of Anthropology, University of Florida (Candidate: Caitlin Baird Peterson)	Gainesville, FL
2014-present	Member	Early Child Development Working Group	Partners in Health	Boston, MA

National Positions

2010-2012	Member	Master's Thesis Committee	Department of Anthropology, University of Florida (Candidate: Caitlin Baird Peterson)	Gainesville, FL
2012-2018	Member	Doctoral Thesis Committee	Department of Anthropology, University of Florida	Gainesville, FL

(Candidate: Caitlin Baird Peterson)

International Positions

2009-present	Member	Steering Committee	Futuros Colectivos (Collective Futures) Conference Series	Guatemala City, Guatemala
2012-present	Member	Board of Directors (10 hours/year)	HablaGuate Foundation	Antigua, Guatemala
2016-2017	Member	Parenting Skills Expert Advisory Group	World Health Organization	Geneva, Switzerland

Professional Societies

2008-present	Guatemala Scholars Network
2008-present	Latin American Studies Association
2008-present	Massachusetts Medical Society
2008-present	American Academy of Pediatrics (Fellow 2016-present)
2011-present	Society for Applied Anthropology
2012-present	Native American and Indigenous Studies Association
2016-present	International Developmental Pediatrics Society

Editorial Activities

Ad hoc Reviewer

Environmental Microbiology
Archives of Biochemistry and Biophysics
Reproductive Health Matters
Medical Anthropology Quarterly
Biomed Central Health Services Research
Health Education Journal
British Medical Journal Open
International Journal of Human Rights in Healthcare
PLOS One
Diabetes Research and Clinical Practice
Breastfeeding Medicine
Journal of Pediatric Intensive Care

British Medical Journal Global Health
Ecology of Food and Nutrition
Archives of Medical Research

International Developmental Pediatrics Association Abstract Review Panel (2017
meeting, Mumbai, India)

Other Editorial Roles

2009-present Series Editor Proceedings of Futuros Colectivos (Guatemala)

Honors and Prizes

- 1997 Ruby Carr Award for Academic Excellence, Norwich University
- 1998 James J. Burke Jr. Memorial Award for Academic Achievement, Norwich University
- 1998 Presidential Fellow, Norwich University (Academic Excellence)
- 1999 Frank G. Brooks Award for Excellence in Student Research, Beta Beta Beta Honor Society
- 2002 Edward W. and Lois G. Voss Award for Graduate Research Excellence, Department of Pathobiology, University of Illinois at Urbana-Champaign
- 2002 Poster Excellence Award, Molecular Parasitism Meeting, Marine Biological Laboratory
- 2005 Best Student Research Poster Award, College of Medicine, University of Illinois at Urbana-Champaign
- 2005 Alpha Omega Alpha (Selection in Junior Year)
- 2005 Foreign Language Areas Studies Fellowship, University of Illinois at Urbana-Champaign
- 2006 Raymond B. Allen Golden Apple Teaching Award, College of Medicine, University of Illinois at Urbana-Champaign
- 2006 Otto Saphir Award for Excellence in Pathology, College of Medicine, University of Illinois at Urbana-Champaign
- 2006 Foreign Language Areas Studies Fellowship, University of Illinois at Urbana-Champaign
- 2006 New Investigator in Global Health Award, 33rd International Conference on Global Health, Global Research Council
- 2007 Daniel K. and Frances A. Bloomfield Fellowship, College of Medicine, University of Illinois at Urbana-Champaign (Leadership)
- 2007 Bamberger Scholarship, College of Medicine, University of Illinois at Urbana-Champaign (Academic Excellence)
- 2008 Illinois International Graduate Achievement Award, University of Illinois at Urbana-Champaign

- 2008 Charles C. Stewart International Young Humanitarian Award, University of Illinois at Urbana-Champaign
- 2008 Latin American Community Service Award, Center for Latin American Studies, University of Illinois at Urbana-Champaign
- 2008 Merck Manual Award, Outstanding Student Class of 2008, College of Medicine, University of Illinois at Urbana-Champaign
- 2008 William E. Sorlie Award for Outstanding Clinical Core Clerkship Performance, College of Medicine, University of Illinois at Urbana-Champaign
- 2008 Valedictorian, Class of 2007-2008, College of Medicine, University of Illinois at Urbana-Champaign
- 2010 Harvard Medical School Dean's Community Service Award
- 2013 Order of the Monja Blanca, Second Class, Ministry of Defense of Guatemala (Public Service)
- 2014 Velji Award for Faculty Teaching Excellence in Global Health, Consortium of Universities for Global Health
- 2017 Excellence In Humanitarianism, Hospital Medicine Unit, Brigham and Women's Hospital
- 2017 Chair's Research Award, Department of Medicine, Brigham and Women's Hospital

REPORT OF FUNDED AND UNFUNDED PROJECTS

Past funding

- 2001-2003 Osmoregulation in *Trypanosoma cruzi*
American Heart Association – Predoctoral Fellowship
PI

The goal was to characterize the cellular biological response of *T. cruzi* to osmotic stress, particularly elucidating the role of polyphosphate and aquaporin.
- 2006-2007 Kaqchikel Ethnomedicine in Guatemala
Patricia J. and Charles C.C. O'Morchoe Fellowship – University of Illinois at Urbana-Champaign
Career Development Award
PI

The goal was to conduct ethnographic research on ethnomedical and ethnobotanical practices and practitioners in Guatemala.

- 2007-2013 Training of Indigenous Kaqchikel-speaking Midwives in Guatemala
Food, Conservation, and Health Foundation – Research Award (5
competitive renewal cycles)
PI
- The goal of the project was to design a continuing education program
for lay midwives and evaluate its impact on clinical practice outcomes.
- 2009-2010 Social Determinants of Child Stunting
Child Health Foundation – Research Award
PI
- The goal of the project was to determine demographic and sociocultural
factors that predicted child nutritional outcomes in a highly
malnourished population.
- 2011-2012 Food Supplementation for Vulnerable Children Aged 6-24 Months in
the Highlands of Guatemala with Nutributter
United States Agency for International Development (USAID) – Food
for Peace Award - AID-FFP-G-11-00072
PI
- The goal of this project was to provide lipid-based nutrient
supplementation to vulnerable children in a highly stunted population,
and to evaluate efficacy and acceptability.
- 2012-2013 Infant and Young Child Feeding Practices in Rural Guatemala
Nutraset – Research Award
Co-PI
- The goal was to conduct a comprehensive formative assessment of
child feeding practices, and to assess the feasibility of the introduction
of new fortified foods to bolster nutritional status.

- 2012-2013 Needs Assessment and Disease Burden among Indigenous Adults with Diabetes in Guatemala
Wuqu' Kawoq | Maya Health Alliance – Research Grant
PI
- The goal of the project was to conduct both qualitative investigation of needs and barriers to health care delivery as well as a retrospective chart review to collect data on disease burden, especially cardiovascular comorbidities.
- 2013-2014 Improving Child Nutrition in Rural Guatemala Through Data-driven Educational Interventions
International Foundation – Research Award
PI
- The goal of the project was to develop evidenced based in-home educational modules for parents of stunted children. Key metrics were improved dietary diversity, caloric density, meal frequency, and linear growth.
- 2015-2016 Crowdfunding and Social Networks as a Novel Mechanism to Sustainably Promote Physical Growth and Positive Psychosocial and Neurodevelopmental Outcomes in Severely Stunted Guatemalan Children
Grand Challenges Canada – Research Award - SB-1726251050
PI
- This project examined both the business/social innovation sides of funding child malnutrition programs through a cultural anthropological assessment of donors, and the impact of an intensive nutrition intervention on both growth and developmental outcomes in stunted children using a randomized controlled design.

Current Funding

- 2015-2018 Mobile Health Intervention to Improve Perinatal Continuum of Care in Guatemala
National Institutes of Health (NIH)/National Institute of Child Health and Human Development R21 HD84114-01
Co-Investigator (PI: Gari Clifford, Emory University)
- This project is a feasibility trial of a smart-phone based intervention to use decision support and peripherals (Doppler device, pulse oximeter, blood pressure cuff) to help traditional birth attendants manage prenatal consultations and coordinate high-risk referrals.
- 2017-2018 Obstetric Care Navigators to Improve Maternal Outcomes among Guatemala's Rural Maya
Grand Challenges Canada – Research Award - R-ST-POC-1707-06554
Co-PI (PI: Kirsten Austad)
Direct Costs - \$100,000
- This project evaluates a novel mechanism of care navigators to improve urgent and emergent obstetrical referrals to higher-level care for rural, indigenous Maya women, using a quality improvement design.
- 2017-2019 Using mobile health technology to improve the continuum of neonatal care in rural Guatemala
Charles Hood Foundation – Research Award
PI
Direct Costs - \$136,364
- This project uses quality improvement methodology and mobile health/smart phone technology to help traditional birth attendants/midwives identify and evaluate high-risk neonates in rural settings and refer them to a higher level of care as necessary.
- 2017-2019 Building capacity for chronic kidney disease research in Guatemala
National Institutes of Health/FIC R21 TW010831-02
PI
Direct costs - \$250,000
- This project conducts a multi-sited representative population-based study of the prevalence and associated risk factors for chronic kidney disease in rural Guatemala, and provides training opportunities for junior investigators and capacity building in CKD research methods for collaborating Guatemalan institutions.

- 2018-2020 Diabetes self-management education for individuals with type 2 diabetes in rural Guatemala
World Diabetes Foundation
PI
Direct costs - \$210,000
- This project will conduct an implementation analysis of a diabetes self management intervention under two different delivery models (public-private, public) in rural Guatemala.
- 2018-2020 Improving dietary diversity for rural Guatemalans through home gardens
Rotary International/Academy of Nutrition and Dietetics
Co-PI (PI Beth Jimenez, University of New Mexico)
Direct costs - \$100,000
- This project will use QI methodology to assess change in dietary diversity by addition of garden interventions to existing nutrition programming in rural Guatemala.

Submitted

- Pending Tracking Neurodevelopment in Guatemala through Novel Measurements of Limb Movement Characteristics in Infants At Risk
National Institutes of Health/Fogarty International Center R21
Co-PI (PI: Beth Smith, University of Southern California) - Direct Costs Requested - \$250,000
- The goal of this project is to investigate the correlation between limb movement early in life and later developmental outcomes in infants at risk for developmental delay.

Expected Review Date: March 2018

Pending A Pragmatic Implementation Trial of HPV-based Screening for Cervical Cancer
National Institutes of Health/National Cancer Institute R21
PI – Direct Costs Requested - \$275,000

This project will build capacity for cancer-related implementation research in Guatemala and evaluate the impact on clinical care of implementing HPV-based screening technologies.

Expected Review Date: May 2018

Pending Mobile Health to Promote Positive Infant Outcomes in Guatemala
National Institutes of Health/Fogarty International Center R21
Co-PI (PI: Beth Smith, University of Southern California) - Direct Costs Requested - \$250,000

The goal of this project is to develop a smartphone-based parenting application for caregivers of infants at risk in rural Guatemala.

Expected Review Date: March 2018

Pending A community based intervention for individuals at high cardiovascular risk in rural Guatemala
National Institutes of Health/National Heart Lung and Blood Institute R01
PI – Direct Costs Requested - \$1,000,000

This project will conduct an individually randomized trial of a lifestyle and self-management interventions for adults with elevated cardiovascular risk.

Expected Review Date: May 2018

Unfunded Current Projects

2006-present Ethnography of health care experiences and health care access
PI
I supervise a team of undergraduate and graduate students using ethnography to explore health care access and barriers to care for indigenous Maya patients in Guatemala.

2010-present Determinants of childhood stunting
 PI
 I supervise a group of medical and public health students using chart review to conduct multivariate analysis of predictors of child stunting in Guatemala.

2013-present Land use and food insecurity in rural Guatemala
 PI
 I supervise a team of Guatemalan anthropologists conducting qualitative inquiry into mechanisms leading to changes in dietary composition, agricultural practices, and food insecurity.

REPORT OF LOCAL TEACHING AND TRAINING

Teaching of Students in Courses

University of Illinois at Urbana-Champaign Courses

2000	Veterinary Bacteriology and Mycology 2 nd -year veterinary students	University of Illinois at Urbana-Champaign College of Veterinary Medicine 20 hours per week for 16 weeks
2005	Human Gross Anatomy 1 st -year medical students	University of Illinois at Urbana-Champaign College of Medicine 20 hours per week for 16 weeks
2005- 2006	Human Pathology 2 nd -year medical students	University of Illinois at Urbana-Champaign College of Medicine 10 hours per week for 32 weeks
2005- 2006	Medical Epidemiology 2 nd -year medical students	University of Illinois at Urbana-Champaign College of Medicine 10 hours per week for 32 weeks
2007	Medicine and Society 4 th -year medical students	University of Illinois at Urbana-Champaign College of Medicine One invited two-hour lecture

2007	Introduction to Health Professions 4 th -year premedical students	University of Illinois at Urbana-Champaign College of Medicine One invited two-hour lecture
2008	Introduction to Clinical Medicine 2 nd -year medical students	University of Illinois at Urbana-Champaign College of Medicine 20 hours per month for one month

Wuqu' Kawoq | Maya Health Alliance Courses

2006	Introduction to Field Methods in Medical Anthropology Advanced undergraduates	Wuqu' Kawoq Maya Health Alliance 25 hours per week for two weeks
2007	Introduction to Resource-Poor Medicine Advanced undergraduates	Wuqu' Kawoq Maya Health Alliance 25 hours per week for four weeks

Universidad Francisco Marroquin Courses

2010	Introduction to Rural Health Care in Guatemala Advanced medical students	Universidad Francisco Marroquin School of Medicine, San Juan Sacatepéquez, Guatemala 20 hours per week for two weeks
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HMS/HSDM/DMS Courses

2015- present	Mixed Methods in Global Health Research GH706.0 Advanced medical and graduate students	Harvard Medical School Two invited three-hour lectures per year
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Other Harvard University Courses

2014- present	Society and its Effects on Child Health SSH220- 01 Advanced public health students	Harvard School of Public Health, Boston, MA One invited two-hour lecture per year
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Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2013	Morning Report: Glycogen Storage Diseases Internal Medicine Residents	Brigham and Women's Hospital One-hour lecture
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2013- present	Pediatrics Advocacy Curriculum: Global Health Pediatrics Interns	Boston Children's Hospital Two-hour lecture four times per year
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Clinical Supervisory and Training Responsibilities

2013-2014	Ambulatory Internal Medicine/Pediatrics Attending Physician, Supervising Medicine/Pediatrics Residents/ Martha Elliott Health Center, Jamaica Plain, MA	Two sessions per month
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2013-2017	Ambulatory Internal Medicine/Pediatrics Attending Physician, Supervising Medicine/Pediatrics Residents/ Brigham and Women's Faulkner Hospital (BWFH), Jamaica Plain, MA	One session per month
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2013- present	Inpatient Overnight Internal Medicine Attending Physician, Supervising Senior Medical Resident Consults/ Brigham and Women's Hospital	4 hours per month
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2016-present	Inpatient Daytime Hospitalist Attending, Supervising Housestaff and Physician Assistants on Inpatient Service/Brigham and Women's Hospital	17 weeks per year
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Laboratory and Other Research Supervisory and Training Responsibilities

2013-present	Supervision of Harvard Medical Students in the "Pursuing Inquiry in Medicine" initiative/ Harvard Medical School	1:1 supervision one hour per week
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2015-present	Supervision of Post-doctoral Research Fellow/ Wuqu' Kawoq Maya Health Alliance	One-hour lab meeting per week and 1:1 supervision 2 hours per week
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2016-present	Supervision of Harvard Medical Student awardees of the Doris Duke International Fellowship/ Harvard Medical School	1:1 supervision two hours per week
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Formally Mentored Harvard Medical, Dental and Graduate Students

2011-2014	Sarah Messmer, HMS Class of 2014 Conducted research on child malnutrition and women's health under my supervision in Guatemala, resulting in several conference presentations and peer-reviewed publications. It also resulted in an Honors Thesis on women's health in rural Guatemala and a Sheldon Traveling Fellowship, both from HMS.
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2012-2014	Sarah Nelson, HMS Class of 2014 Conducted research on research on child malnutrition under my supervision in Guatemala. Resulted in a Technical Manual for training community health workers. Funded by a Sheldon Traveling Fellowship from HMS.
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- 2013-2015 David Flood, HMS Class of 2015
- Conducted research on quality improvement (QI) of diabetes programming in rural Guatemala under my supervision, with funding from both the Sheldon Traveling Fellowship and the Primary Care Center, both from HMS. Resulted in one peer-reviewed manuscript and three more currently under submission/in press.
- 2013-present Jillian Moore, HMS Class of 2018
- Conducted initial research on palliative care in Guatemala under my supervision, which has resulted in a 2017 Doris Duke International Fellowship to continue the work. One manuscript published in a prestigious social science journal (*Journal of Development Studies*).
- 2015-present Vera Goldberg, HMS Class of 2017
- Conducted research on quality improvement of child nutrition programming in Guatemala under my supervision and has also worked on other chronic disease projects, with funding from HMS's Sheldon Traveling Fellowship. Has one case study and one manuscript in submission at this time.

Other Mentored Trainees and Faculty

- 2009-2014 Anne Kraemer Díaz, MS/ Executive Director, Wuqu' Kawoq | Maya Health Alliance
Career stage: graduate student. *Mentoring role:* research advisor
Accomplishments: multiple medical anthropology publications; executive career position in development field
- 2010-2012 Miranda Greiner, MD, MPH/Psychiatry Resident, New York-Presbyterian Hospital, New York City, NY
Career stage: medical student. *Mentoring role:* research advisor.
Accomplishments: publication of peer reviewed research on type 2 diabetes in Guatemala and presentation at Native American and Indigenous Studies Association conference; MPH at New York University.

- 2010-present Anita Chary, PhD/ Medical Student, Washington University School of Medicine in St. Louis (WUSTL), St. Louis, MO
Career stage: undergraduate, graduate, and medical student. *Mentoring role:* research advisor. *Accomplishments:* numerous peer reviewed publications in medical anthropology; PhD in medical anthropology at WUSTL; prestigious Olin Women’s Fellowship from WUSTL
- 2010-present Caitlin Baird Peterson, MS/ Doctoral Student, Department of Anthropology, University of Florida
Career stage: graduate student. *Mentoring role:* research advisor. *Accomplishments:* prestigious Interamerican Foundation Grassroots Development Fellowship; finishing PhD in anthropology at this time.
- 2011-2012 Eric Sorenson, MD/Dermatology Resident, Stanford University, Stanford, CA
Career stage: medical student. *Mentoring role:* research advisor. *Accomplishments:* completion of research thesis at University of Southern California Medical School.
- 2013-2015 Nora King, MD/Resident in Obstetrics and Gynecology, University of Minnesota, Minneapolis, MN
Career stage: medical student. *Mentoring role:* research advisor. *Accomplishments:* prestigious Fulbright Scholarship to study postpartum hemorrhage in Guatemala. 1 conference presentation at the American Congress of Obstetricians and Gynecologists, 1 peer-reviewed book chapter, 1 peer-reviewed case study.
- 2015-present Boris Martinez, MD/Postdoctoral Research Scientist, Wuqu’ Kawoq | Maya Health Alliance
Career stage: post-doctoral researcher. *Mentoring role:* research advisor. *Accomplishments:* 10 peer-reviewed publications, 2017 Research Award from the American Academy of Pediatrics.
- 2015-present Meghan Farley Webb, PhD/Postdoctoral Research Scientist, Wuqu’ Kawoq | Maya Health Alliance
Career stage: post-doctoral researcher. *Mentoring role:* research advisor. *Accomplishments:* 2 conference presentations at the Latin American Studies Association and American Anthropological Association, 5 peer-reviewed publication, multiple other manuscripts under peer review.
- 2015-present Thomas de Vries, PA-C, MPH/Brigham and Women’s Hospital
Career stage: Physician’s Assistant. *Mentoring role:* research mentor. *Accomplishments:* 1 peer-reviewed publication, another in preparation.

- 2015-present Kirsten Austad, MD/ Resident Physician at Boston Medical Center, Boston, MA
Career stage: resident. *Mentoring role:* research mentor.
Accomplishments: 5 peer-reviewed publication, additional papers in preparation; 1 NIH grant submitted; 1 Grand Challenges Canada Grant Awards; awarded Brigham and Women's Global Women's Health Fellowship for 2016-2018.
- 2017-present Michel Juarez, MD/Postdoctoral Research Scientist, Wuqu' Kawoq | Maya Health Alliance
Career stage: post-doctoral researcher. *Mentoring role:* research advisor.
Accomplishments: 2 peer-reviewed publications, first prize for Research Presentation, 2017 Annual Meeting of the Guatemala College of Physicians
- 2017-present Ana Cordon, MD/ Postdoctoral Research Scientist, Wuqu' Kawoq | Maya Health Alliance
Career stage: post-doctoral researcher. *Mentoring role:* research advisor.

Local Invited Presentations

No presentations below were sponsored by outside entities.

- 2005 Probing the Functions of an Enigmatic Organelle / Research Presentation Allerton Symposium, College of Medicine, University of Illinois at Urbana-Champaign
- 2007 Perspectives from a Primary Care Clinic in Guatemala / Grand Rounds Department of Medicine, Ileana Veterans Administration Hospital, Danville, IL
- 2007 Global Perspectives in Palliative Care / Grand Rounds Department of Medicine, Ileana Veterans Administration Hospital
- 2007 Being *Qawinäq*, Becoming *Qawinäq*: Medicine and Language Revitalization in the Kaqchikel Highlands of Guatemala / Brownbag Seminar
Center for Latin American and Caribbean Studies, University of Illinois at Urbana-Champaign
- 2007 Careers in International Health / Panel Discussion
Center for International Engagement, University of Illinois at Urbana-Champaign
- 2013 Introduction to Child Malnutrition in Developing Settings / Presentation Nutrition Student Interest Group, Harvard Medical School

- 2013 Community Organizing, Advocacy and Indigenous Rights: Integrated Approaches to Child Malnutrition in Guatemala / Global Health Lecture Series
Global Pediatrics Program, Boston Children's Hospital
- 2015 Uncovering Hidden Strengths: Family-Based Approaches to Chronic Illness in Global Health / Grand Rounds – Annual Medicine-Pediatrics Lectureship
Department of Medicine, Boston Children's Hospital
- 2015 Promoting Vital Indigenous Communities: Healthcare, Culture Work, and Advocacy in Maya Guatemala / Partnership Grand Rounds
Division of Global Health Equity, Brigham and Women's Hospital
- 2017 Home-based Interventions for Early Child Development in Rural Guatemala / Global Health Seminar Series
Global Health Program, Boston Children's Hospital
- 2017 Holistic Perspectives on Child Growth and Nutrition: Insights Gleaned from Demography, Anthropology, and Clinical Practice/Seminar Series
Department of Global Health and Social Medicine, Harvard Medical school

REPORT OF REGIONAL, NATIONAL, AND INTERNATIONAL INVITED TEACHING AND PRESENTATIONS

Regional

No presentations below were sponsored by outside entities.

- 2011 Chronic Malnutrition in Guatemala / Invited Talk
Hungry for Change Conference, Brown University, Providence, RI
- 2013 Making a Global Difference: Child Health in Guatemala / Invited Lecture
Center for Child and Youth Studies, Salem State University, Salem, MA
- 2014 Complex Illness in Childhood – Perspectives from the Developing World / Invited Talk
Steven J. Parker Conference on Developmental Pediatrics, Boston University School of Medicine, Boston, MA

National

No presentations below were sponsored by outside entities.

- 2008 Ethnicity, Language, and Health Care: Impacting Access to Care in Guatemala / Invited Lecture
Medical Scholars Program, University of Illinois at Urbana-Champaign

- 2008 Qak'aslem, Qakem: Contemporary Kaqchikel Maya Weavings / Guest Curator Lecture
The Spurlock Museum, University of Illinois at Urbana-Champaign
- 2008 Kaqchikel Maya Weavings in Their Social Context / Guest Curator Lecture
The Spurlock Museum, University of Illinois at Urbana-Champaign
- 2008 Infrastructure Development: A Community-based Approach World / Invited Talk
Engineers without Borders Great Lakes Workshops, Urbana, IL
- 2008 Introduction to Grant Writing / Invited Workshop
Engineers without Borders Great Lakes Workshops, Urbana, IL
- 2009 Introduction to Physician-Scientist Careers / Invited Lecture
Department of Cellular Biology, University of Georgia, Athens, GA
- 2009 International Careers and Title IX / Panel Participant
Center for International Studies, University of Illinois at Urbana-Champaign
- 2010 Development, Culture, and Language Revitalization: Collaborative Approaches from Guatemala / Invited Talk
Conference on Africa's Response to Language Endangerment, University of Florida, Gainesville, FL
- 2013 A New Approach to Community-Based Development: The Linguistic and Cultural Dimensions of Child Malnutrition in Guatemala / Invited
University of Florida, Gainesville, FL
- 2013 Examining the Social Contract through Child Nutrition in Guatemala / Invited Discussant
Latin American Studies Association Meeting, Washington, DC
- 2013 The Global Burden of Diabetes: A Case Study from Guatemala / Grand Rounds
Department of Medicine, University of Illinois at Urbana-Champaign
- 2013 The Intersection of Health Care and Language Rights in Guatemala / Invited Talk
Universidad Autónoma de Mexico Extension School, Chicago, IL
- 2013 Child Stunting and Advocacy in Guatemala / Departmental Lecture Series
School for Human Evolution and Social Change, Arizona State University, Tempe, AZ

- 2015 Addressing Disease and Inequality in Guatemala / Invited Panelist
Latino Public Health Network, Johns Hopkins School of Public Health,
Baltimore, MD
- 2015 Diet Quality and the Built Environment: At Home and Around the
World / Invited Panelist
Food and Nutrition Conference and Expo, Academy of Nutrition and
Dietetics, Nashville, TN
- 2015 Building Sustainable Partnerships in Guatemala / Visiting Scholar
Center for Latin American Studies, Vanderbilt University, Nashville, TN
- 2015 Promoting Vital Indigenous Communities: Health Care Delivery in
Rural Maya Guatemala / Invited Talk
School of Nursing, Vanderbilt University, Nashville, TN
- 2016 Agile Health: Building a Different Kind of Healthcare in Guatemala /
Anthropology Graduate Student Association Lecture Series
Institute for Mesoamerican Studies, State University of New York,
Albany, NY
- 2016 Health Care Innovation and New Challenges in Indigenous Health
Invited Discussant
Latin American Studies Association Meeting, New York NY
- 2017 Stunting, Early Child Development, Thriving Children
Invited Panelist
Charles Hood Foundation 75th Anniversary Celebration, Boston MA
- 2017 International Food Policy, Food Insecurity and Food Deserts:
Undernutrition and Overnutrition Across the Lifespan and Around the
World
Invited Speaker
The Medicalization of Poverty Symposium, University of Illinois at
Urbana-Champaign/Carle Hospital, Urbana, IL
- 2017 Lean In: Building Bridges from Linguistics
Invited Panelist
National Humanities Conference, National Humanities Alliance
Conference, Boston, MA
- 2018 Tiiq'omaj qi': Improving Health Care Outcomes in Rural Maya
Guatemala
Invited Talk
Berry College, Mount Berry, GA
- 2018 Using Linguistics, Community Oriented Research and Improvement
Science to Improve Health Care Outcomes in Rural Maya Guatemala
Invited Talk
Center for Latin American and Caribbean Studies, University of Illinois
at Urbana-Champaign

National Abstract Oral Presentations

- 2014 Indigenous health and noncommunicable chronic disease: Tackling the elephant in the room.
Society for Applied Anthropology Meeting, Albuquerque, NM
- 2017 Community-based approaches to type 2 diabetes in an indigenous Maya population from Guatemala
Society for Applied Anthropology Meeting, Santa Fe, NM
- 2018 A lay-midwife centered approach to mHealth for improving maternal care in Guatemala
Society for Applied Anthropology Meeting, Philadelphia, PA

International

No presentations below were sponsored by outside entities.

- 2009 Recent Advances in the Study of Acidocalcisomes / Invited Talk
University of Cadíz, Cadíz, Spain
- 2010 Desnutrición Crónica en Guatemala: el Estado Actual (Chronic Malnutrition in Guatemala: Updates) / Invited Talk
Programa de Ayuda a los Vecinos del Altiplano (Aid Program for Highland Communities), Antigua, Guatemala
- 2011 Programas Comunitarias para Detectar y Tratar la Desnutrición Infantil (Community Programs to Treat and Detect Infant Malnutrition) / Invited Talk
Futuros Colectivos (Collective Futures) Conference, Patzún, Guatemala
- 2012 Developing Programs for Treatment of Type II Diabetes in Guatemala / Invited Talk
Hospitalito Atitlán, Santiago Atitlán, Guatemala
- 2013 Type 2 Diabetes in Rural Central America/ Invited Talk
Compañeros en Salud (Partners in Health), Jaltenango, Chiapas, Mexico
- 2013 In-born Errors of Metabolism in Resource-Poor Settings / Invited Talk
Compañeros en Salud (Partners in Health), Jaltenango, Chiapas, Mexico
- 2013 Child Malnutrition in Rural Central America / Invited Talk
Compañeros en Salud (Partners in Health), Jaltenango, Chiapas, Mexico
- 2018 Desarrollo Integral de la Primera Infancia: Factores de Riesgo para la niñez guatemalteca [Integrated Development in Early Childhood: Risk Factors for Guatemalan Children]/ Invited Talk
Encuentro por la Primera Infancia [Early Childhood Symposium],
Guatemalan Congressional Committee on Childhood and the Family,
Guatemala City, Guatemala

2018 Medición del Desarrollo Infantil [Measuring Early Childhood Development]/ Invited Talk
 Encuentro por la Primera Infancia [Early Childhood Symposium],
 Guatemalan Congressional Committee on Childhood and the Family,
 Guatemala City, Guatemala

REPORT OF CLINICAL ACTIVITIES AND INNOVATIONS

Current Licensure and Certification

2012-present Massachusetts Medical License
 2013 Board Certified, Internal Medicine
 2013 Board Certified, Pediatrics
 2013 Certified Fitter, Opensocket Transradial Prosthetic Arm
 2015 Certified Clinician, International Guide for Monitoring and Supporting
 Child Development
 2018 DEA X-Waiver

Practice Activities

2013-present	Ambulatory Care	Internal Medicine/Pediatrics, Brigham and Women’s Faulkner Hospital, Jamaica Plain, MA	One session per month
2013-present	Hospital Medicine	Inpatient Adult Medicine, Brigham and Women’s Hospital/Dana Farber Cancer Institute	17 weeks per year (daytime teaching service); 24 shifts/year (nighttime nonteaching service with 2 hrs/teaching per shift)

Clinical Innovations

Primary Health System Design in Guatemala (2007-present)

I am the cofounder of Wuqu’ Kawoq | Maya Health Alliance, a not-for-profit primary health care system in Guatemala. Over the last 10 years, under my leadership, this system has grown to be one of the largest providers of primary health care in rural Guatemala, with a special

Methods for Indigenous Languages in the Delivery of Primary Care. Wuqu' Kawoq | Maya Health Alliance, Guatemala (2007-present)

Integrating Practice-based Research into Global Health Delivery. Wuqu' Kawoq | Maya Health Alliance, Guatemala (2010-present)

Electronic Medical Record (EMR) Systems and mHealth in Resource-Constrained Settings (2010-present)

emphasis on the treatment of non-communicable chronic diseases and 50,000 visits per year. The organization's model for integrated primary care is a highly visible and often-cited model for care delivery in Central America.

I developed methods for teaching clinicians and case managers how to provide culturally and linguistically appropriate care to speakers of minority indigenous languages. These included formal linguistic methods for introducing technical vocabulary and medical neologisms. The model is widely borrowed by other organizations in Guatemala. I am regularly asked to speak and train others on the model at academic and development institutions worldwide. The model was formally published in a major linguistics journal, *Language Documentation and Conservation*.

I have worked to assemble and train a large multidisciplinary team of researchers and clinicians in Guatemala that evaluates the impact of primary health care interventions on rural, indigenous populations. This work is tightly integrated into care delivery, contributing to quality improvement initiatives and continuous practice improvement. These efforts have resulted in multiple publications in both anthropology journals, such as *Human Organization*, and medical journals, such as *BMC Health Services Research* and *Global Health: Science and Practice*.

I spearheaded the implementation of a cloud-based electronic medical record system using the open source OpenMRS framework in Guatemala at Wuqu' Kawoq | Maya Health Alliance. It is currently the largest EMR implementation in the country. As a result of this work, I am now co-Investigator on an NIH-sponsored trial to provide decision support to lay midwives through phones linked to this EMR. Preliminary results from this trial have been presented at leading Biomedical Engineering conferences. Additionally, I am now consulting with Guatemala's National Cancer Hospital on using some elements of our EMR framework to improve their own case coordination and teaching Wuqu' Kawoq's clinical staff to use their EMR for quality improvement/assurance purposes.

Clinical Protocols for Management of Type 2 Diabetes in Rural Global Health Settings. Wuqu' Kawoq | Maya Health Alliance, Guatemala (2012-present)

I developed protocols that are the first to describe the management of type 2 diabetes by physician-supervised community health workers in Guatemala, and among just a few examples of such protocols worldwide. They have been used to build up one of the largest longitudinal diabetes cohorts in Guatemala. Design of this program was reported in *BMC Health Service Research*, and clinical outcomes are being prepared for publication in quality improvement journals.

Clinical Protocols for Management of Chronic Child Malnutrition in Rural Global Health Settings. Wuqu' Kawoq | Maya Health Alliance, Guatemala (2012-present)

I am an expert in the management of pediatric growth disorders, especially chronic child malnutrition, in global health settings. I developed and validated protocols for this disorder that are used by clinicians and health promoters around Guatemala. A major innovation was reintroducing the notion of "catch-up growth" to the chronic malnutrition paradigm, which is currently being evaluated in a randomized clinical trial of which I am the principal investigator.

Management of Complex Pediatric Illness in Rural Global Health Settings. Wuqu' Kawoq | Maya Health Alliance, Guatemala (2013-present)

I opened and trained clinical staff in a referral clinic in central Guatemala for children with complex conditions (genetic conditions, inborn errors of metabolism, severe developmental delay, epilepsy, etc.). Now with hundreds of patients, this clinic cares for one of the largest cohorts of children with these illnesses in Guatemala. As a result of this experience, I am a well-recognized expert on the management of these conditions. The clinic routinely receives referral cases from the entire country from both public and private sectors. I regularly provide consultation to specialists in both public and private national hospitals on the management of these conditions.

REPORT OF TECHNOLOGICAL AND OTHER SCIENTIFIC INNOVATIONS

Smart-phone-based decision support application for lay midwives (2017)

Published in the *Journal of Medical Engineering and Technology*.

I serve as Co-Investigator on an NIH-sponsored project to develop a phone-based decision support algorithm for low-literate lay midwives in rural, low-income global health settings.

REPORT OF EDUCATION OF PATIENTS AND SERVICE TO THE COMMUNITY

Education of Patients and Service to the Community

No educational activities below were sponsored by outside entities.

Activities

- | | |
|------|---|
| 2013 | Hearing the Voice of the Poor: Toward a Theology of Accompaniment in Guatemala / Invited Lecture
Christian Studies Center, Gainesville, FL |
| 2013 | Indigenous Tweets: Visible Voices and Tech / Invited Panelist
South by Southwest Interactive Conference, Austin TX |
| 2013 | Storytelling for Movement Building / Invited Panelist
Ashoka Future Forum, Washington, DC |
| 2015 | Revitalizing Mayan Languages through Development in Guatemala / Invited Talk
World Languages and Cultures Institute, Boston, MA |

Educational Material for Patients and the Lay Community

No educational materials below were sponsored by outside entities.

Books, monographs, articles, and presentations in other media

1. American Council on Education. Engaging the world: U.S. global competence in the 21st century [documentary film]. Washington, DC: American Council on Education; 2009.

I appeared as a featured expert on cultural and linguistic competency in global health.

2. Be the change, save a life [television broadcast]. ABC 20/20 News Program. New York, NY. 2010 December 17.

I appeared as a featured expert on child malnutrition.

3. Be the change, save a life [television broadcast]. ABC 20/20 News Program. New York, NY. 2011 December 16.

I appeared as a featured expert on child malnutrition.

4. **Rohloff P.** Diabetes – a rural snapshot. 2012 Aug 22 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2012 - . Available from: <http://www.globalhealthhub.org/2012/08/22/diabetes-a-rural-snapshot/>

5. **Rohloff P.** Rural health care and the “problem” of language. 2012 Oct 10 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2012 -

. Available from: <http://www.globalhealthhub.org/2012/10/10/rural-health-care-and-the-problem-of-language/>

6. **Rohloff P.** Primary care – and complex illness. 2012 Dec 7 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2012 - . Available from: <http://www.globalhealthhub.org/2012/12/07/primary-care-and-complex-illness/>

7. **Rohloff P.** Designing low-cost prosthetics. 2013 Jan 18 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2013 - . Available from: <http://www.globalhealthhub.org/2013/01/18/designing-low-cost-prosthetics/>

8. **Rohloff P.** Language, culture and millennium development goals – An interview. 2013 Mar 5 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2013 - . Available from: <http://www.globalhealthhub.org/2013/03/05/language-culture-and-millennium-development-goals-an-interview/>

9. **Rohloff P.** The history and future of community health workers – An interview. 2013 May 2 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2013 - . Available from: <http://www.globalhealthhub.org/2013/05/02/the-history-and-future-of-community-health-workers-an-interview/>

10. **Rohloff P.** The limitations of “behavior change” – case studies from child malnutrition. 2013 Aug 28 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2013 - . Available from: <http://www.globalhealthhub.org/2013/08/28/the-limitations-of-behavior-change-cases-studies-from-child-malnutrition/>

11. **Rohloff P.** So you wanna’ start a cancer program... 2013 Sep 18 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2013 - . Available from: <http://www.globalhealthhub.org/2013/09/18/so-you-wanna-start-a-cancer-program/>

12. **Rohloff P.** Food affordability, Optifood, and the complexity of developing nutritional solutions for children. 2014 Jan 2 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2014 - . Available from: <http://www.globalhealthhub.org/2014/01/02/food-affordability-optifood-complexity-developing-nutritional-solutions-children/>

13. **Rohloff P.** “Fetishism” and humanitarian aid – An interview. 2014 Jan 21 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2014 - . Available from: <http://www.globalhealthhub.org/2014/01/21/fetishism-humanitarian-aid-interview/>

14. **Rohloff P.** Child nutrition – After the first 1000 days. 2014 Jun 10 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2014 - . Available from: <http://www.globalhealthhub.org/2014/06/10/child-nutrition-first-1000-days/>

15. **Rohloff P.** Medical missions – A critical perspective. 2014 Jul 9 [cited 2016 Apr 6]. In Global Health Hub Blog [Internet]. San Francisco: Global Health Hub. c2014 - . Available from: <http://www.globalhealthhub.org/2014/07/09/medical-missions-critical-perspective/>

16. Big data meets modern medicine in a life-saving equation [television broadcast]. PBS News Hour Program. New York, NY. 2016 February 3.

I appeared as a featured expert on resource allocation in global health.

Patient educational material

1. Greiner M**, Henretty N, **Rohloff P.** (2011). Rukab'il kik' chuqa' ilinem/Diabetes y nutrición (Diabetes and diet). Santiago Sacatepéquez, Guatemala: Wuqu' Kawoq.

Diabetes education materials in Spanish and Kaqchikel Maya.

2. Greiner M**, Henretty N, **Rohloff P.** (2011). Rujotolem rukab'il ri kik'/Diabetes y su Salud (Diabetes and Your Health). Santiago Sacatepéquez, Guatemala: Wuqu' Kawoq.

Diabetes education materials in Spanish and Kaqchikel Maya.

3. Kaqchikel Cholchi'. (2012). Kaqchikel Choltzij: kolon chuqa' k'ak'a taq tzij (Kaqchikel Dictionary: Neologisms). Guatemala City, Guatemala: Kaqchikel Cholchi'.

I served as principal technical advisor for the production of this dictionary of medical and technical vocabulary in Kaqchikel Maya.

4. Melvin C**, Henretty N, **Rohloff P.** (2012). Niños Comiendo Bien (Children Eating Well). Santiago Sacatepéquez, Guatemala: Wuqu' Kawoq.

Large format posters produced in Spanish for teaching about complementary feeding.

Articles in newspapers or magazines

1. **Rohloff P.**, Erb C. Diagnosis of a failing medical system. The Public I. 2003 Nov; p. 1,11.

** denotes first author who was my mentee.

REPORT OF SCHOLARSHIP

Peer-Reviewed Scholarship in print or other media

Research investigations

1. Rodrigues CO, Ruiz FA, **Rohloff P**, Scott DA, Moreno SN. Characterization of isolated acidocalcisomes from *Toxoplasma gondii* tachyzoites reveals a novel pool of hydrolyzable polyphosphates. *J Biol Chem*. 2002;277:48650-6.
2. **Rohloff P**, Rodrigues CO, Docampo R. Regulatory volume decrease in *Trypanosoma cruzi* involves amino acid efflux and changes in intracellular calcium. *Mol Biochem Parasitol*. 2003;126:219-30.
3. Montalvetti A*, **Rohloff P***, Docampo R. A functional aquaporin colocalizes with H⁺-pyrophosphatase to acidocalcisomes and the contractile vacuole complex of *Trypanosoma cruzi*. *J Biol Chem*. 2004;279:38673-82.
4. **Rohloff P***, Montalvetti A*, Docampo R. Acidocalcisomes and the contractile vacuole complex are involved in osmoregulation in *Trypanosoma cruzi*. *J Biol Chem*. 2004;279:52270-81.
5. Luo S, **Rohloff P**, Cox J, Uyemura SA, Docampo R. *Trypanosoma brucei* plasma membrane-type Ca²⁺-ATPase 1 (TbPMC1) and 2 (TbPMC2) genes encode functional Ca²⁺-ATPases localized to the acidocalcisomes and plasma membrane and essential for Ca²⁺ homeostasis and growth. *J Biol Chem*. 2004;279:14427-39.
6. Cuevas IC, **Rohloff P**, Sanchez DO, Docampo R. 2005. Farnesylated protein tyrosine phosphatase TcPRL-1 from *Trypanosoma cruzi*. *Eukaryotic Cell*. 2005;4:1550-61
7. Vieira M, **Rohloff P**, Luo S, Cunha-e-Silva NL, de Souza W, Docampo R. Role for a P-type H⁺-ATPase in the acidification of the endocytic pathway of *Trypanosoma cruzi*. *Biochem J*. 2005;392:467-74.
8. Smith SA, Mutch NJ, **Rohloff P**, Docampo R, Morrissey JH. Polyphosphate-a new modulator of blood coagulation and fibrinolysis. *PNAS*. 2006;103:903-8.
9. Ferella M, Montalvetti A, **Rohloff P**, Miranda K, Fang J, Reina S, Kawamukai M, Bua J, Nilsson D, Pravia C, Katzin, Cassera MB, Aslund L, Andersson B, Docampo R, Bontempi EJ. A solanesyl diphosphate synthase localizes in glycosomes of *Trypanosoma cruzi*. *J Biol Chem*. 2006;281:39339-48.

10. **Rohloff P**, Docampo R. Ammonium production during hypo-osmotic stress leads to alkalinization of acidocalcisomes and cytosolic acidification in *Trypanosoma cruzi*. *Mol Biochem Parasitol*. 2006;150:249-55.
11. Fang JM*, **Rohloff P***, Miranda K, Docampo R. Ablation of a small transmembrane protein of *Trypanosoma brucei* (TbVTC1) involved in the synthesis of polyphosphate alters acidocalcisome biogenesis and function, and leads to a cytokinesis defect. *Biochem J*. 2007;407:161-70.
12. Fang J, Ruiz FA, Docampo M, Luo S, Rodrigues JCF, Motta LS, **Rohloff P**, Docampo R. Overexpression of a Zn²⁺-sensitive soluble exopolyphosphatase from *Trypanosoma cruzi* depletes polyphosphate and affects osmoregulation. *J Biol Chem*. 2007;282:32501-10.
13. Miranda K, Pace D, Rodrigues JCF, Cintron R, Fang J, **Rohloff P**, Coelho E, de Haas F, Plattner H, Hentschel J, de Souza W, Coppens I, Sibley LD, Moreno SNJ. Characterization of a novel organelle in *Toxoplasma gondii* with similar composition and function to the plant vacuole. *Mol Microbiol*. 2010;76:1358-75.
14. Ulrich PN, Jimenez V, Park M, Martins VP, Atwood J, Moles K, Collins D, **Rohloff P**, Tarleton R, Moreno SNJ, Orlando R, Docampo R. Identification of contractile vacuole proteins in *Trypanosoma cruzi*. *PloS One*. 2011;6:e18013.
15. Chary A**, Dasgupta S, Messmer S, **Rohloff P**. Breastfeeding, subjugation, and empowerment in rural Guatemala. In: Walks M, McPherson N, editors. *Mothering: Anthropological perspectives*. Toronto: Demeter Press; 2011. p. 172-82.
16. **Rohloff P**, Miranda K, Rodrigues J, Fang J, Galizzi M, Plattner H, Hentschel J, Moreno SNJ. Calcium uptake and proton transport by acidocalcisomes of *Toxoplasma gondii*. *PLOS One*. 2011;6:e18390.
17. **Rohloff P**, Kraemer Díaz A, Dasgupta S. "Beyond development"—A critical appraisal of the emergence of small health care non-governmental organizations in rural Guatemala. *Human Organization*. 2011;70:427-437.
18. Huang G, Fang J, Sant'Anna C, Zhu-Hong L, Wellems DL, **Rohloff P**, Docampo R. Adaptor protein-3 (AP-3) complex mediates the biogenesis of acidocalcisomes and is essential for growth and virulence in *Trypanosoma brucei*. *J Biol Chem*. 2011;286:36619-30.
19. Chary A**, Messmer S, **Rohloff P**. Male influence on infant feeding in rural Guatemala and implications for child nutrition interventions. *Breastfeeding Medicine*. 2011;6:227-31.

20. Chary A**, Messmer S, Sorenson E, Henretty N, Dasgupta S, **Rohloff P**. The normalization of childhood disease: An ethnographic study of child malnutrition in rural Guatemala. *Human Organization*. 2013;72:88-97.
21. Chary A**, Greiner M, Bowers C, **Rohloff P**. Determining adult type 2 diabetes related health care needs in an indigenous population from rural Guatemala: A mixed methods preliminary study. *BMC Health Services Research*. 2012;12:476.
22. Chary A**, Kraemer Díaz A, Henderson B, **Rohloff P**. (2013). The changing role of indigenous lay midwives in Guatemala: New frameworks for analysis. *Midwifery*. 2013;29:852-58.
23. Henderson B, **Rohloff P**, Henderson R. More than words: towards a development-based approach to language revitalization. *Language Documentation and Conservation Journal*. 2014;8:75-91.
Presents new research data.
24. Davis TE, Fischer EF, **Rohloff P**, Heimbürger DC. Chronic malnutrition, breastfeeding, and ready to use supplementary food in a Guatemalan Maya town. *Human Organization*. 2014;1:72-81.
25. Chary AN**, **Rohloff PJ**. Major challenges to scale up of visual inspection-based cervical cancer prevention programs: the experience of Guatemalan NGOs. *Glob Health Sci Pract*. 2014;2:307-17.
26. Wehr H**, Chary A, Webb MF, **Rohloff P**. Implications of gender and household roles in Indigenous Maya communities in Guatemala for child nutrition interventions. *International J of Indigenous Health*. 2014;10:99-112.
27. Brown K**, Henretty N, Chary A, Webb MF, Wehr H, Moore J, Baird C, Díaz AK, **Rohloff P**. Mixed-methods study identifies key strategies for improving infant and young child feeding practices in a highly stunted rural indigenous population in Guatemala. *Matern Child Nutr*. 2016;12:262-77.
28. Flood D**, Mux S, Martinez B, García P, Douglas K, Goldberg V, Lopez W, **Rohloff P**. Implementation and outcomes of a comprehensive type 2 Diabetes program in rural Guatemala. *PLoS One*. 2016; 11:e0161152.
29. Webb MF**, Chary AN, De Vries TT, Davis S, Dykstra M, Flood D, Rhodes MH, **Rohloff P**. Exploring mechanisms of food insecurity in indigenous agricultural communities in Guatemala: a mixed methods study. *BMC Nutrition*. 2016; 2:55.
30. Chary A**, Flood D, Austad K, Moore J, King N, Martinez B, Garcia P, Lopez W, Dasgupta-Tsikinas S, **Rohloff P**. Navigating bureaucracy: Accompanying indigenous

Maya patients with complex healthcare needs in Guatemala. Human Organization. 2016;75:305-14.

31. Stroux L, Martinez B, Ixen EC, King N, Hall-Clifford R, **Rohloff P**, Clifford GD. An mHealth monitoring system for traditional birth attendant-led antenatal risk assessment in rural Guatemala, Journal of Medical Engineering & Technology. 2016; DOI: 10.1080/03091902.2016.1223196

32. Flood D**, Mathieu I, Chary A, Garcia P, **Rohloff P**. Perceptions and utilization of generic medications in Guatemala: A mixed-methods study with physicians and pharmacy staff. BMC Health Services Research. 2017; 17:27.

33. Moore J**, Webb MF, Chary A, Kraemer Díaz A, **Rohloff P**. Aid and gendered subjectivity in rural Guatemala. Journal of Development Studies. 2017; 53:2164-78.

34. Flood D**, Douglas K, Goldberg V, Martinez B, Garcia P, Arbour M, **Rohloff P**. A quality improvement project using statistical process control methods for type 2 diabetes control in a resource-limited setting. Int J Qual Health Care 2017; doi: 10.1093/intqhc/mzx051.

35. Martinez B**, Hall-Clifford R, Coyote E, Stroux L, Valderrama CE, Aaron C, Francis A, Hendren C, **Rohloff P**, Clifford GD. Agile Development of a Smartphone App for Perinatal Monitoring in a Resource-Constrained Setting. J Health Informatics in Dev Countries. 2017; 11:158.

36. Hall-Clifford R, Roche S, Fathima S, Palmius N, Hollingworth K, Kennedy J, Merida J, Stephens M, Lavalley R, **Rohloff P**, Garcia P, Patrick S, Clifford G. Sustainable Technology for Surgical Referrals: Pilot Implementation of an Electronic Referral System for Short-Term Surgical Missions. J Health Informatics in Dev Countries. 2017; in press.

37. Flood D**, Hawkins J, **Rohloff P**. Evaluation of a Home-Based Type 2 Diabetes Self-Management Intervention in Rural Guatemala, 2014–2016. Preventing Chronic Disease 2017; doi: 10.5888/pcd14.170052. PubMed PMID: [28796597](https://pubmed.ncbi.nlm.nih.gov/28796597/).

38. Chary A**, Flood D, Austad K, Colom M, Hawkins J, Cnop K, Martinez B, Lopez W, **Rohloff P**. Accompanying indigenous Maya patients with complex medical needs: A patient navigation system in rural Guatemala. Healthc (Amst). 2017 Sep 14. pii: S2213-0764(17)30177-X. doi: 10.1016/j.hjdsi.2017.08.006.

39. Flood D**, Garcia P, Douglas K, Hawkins J, **Rohloff P**. Screening for chronic kidney disease in a community-based diabetes cohort in rural Guatemala: a cross-sectional study. BMJ Open 2018 Jan 21;8(1):e019778.

Other peer-reviewed scholarship

1. Wei K, Vaidya A, **Rohloff P**, Sun Y-P, Grad Y. A patient with fevers and fatigue. *N Engl J Med*. 2013;368:e9.
2. Chansakul T, von Keudell A, **Rohloff P**, Janneck L, Bustamante N, Weaver MJ, Fulwadhva U. Scapular prolapse into the intrathoracic cavity in a lung transplant patient. *Lancet*. 2014;384:1476.
3. King N**, Alvizures R, García P, Wessel A, **Rohloff P**. Argininemia as a cause of severe chronic stunting in a low-resource developing country setting: a case report. *BMC Pediatr*. 2016; 16:142.
4. Goldberg V**, Martinez B, Cnop K, **Rohloff P**. Use of propranolol in a remote region of rural Guatemala to treat a large facial infantile haemangioma. *BMJ Case Reports* 2017; doi: 10.1136/bcr-2017-219782.
5. Juarez M**, **Rohloff P**. Myxoedema in a patient with achondroplasia in rural area of Guatemala. *BMJ Case Rep* 2017; doi: 10.1136/bcr-2016-218506.
6. Shah PA**, Coj M, **Rohloff P**. Delays in diagnosis and treatment of extrapulmonary tuberculosis in Guatemala. *BMJ Case Rep* 2017;doi:10.1136/bcr-2017-220777

Non-peer reviewed scientific or medical publications/materials in print or other media

Proceedings of meetings or other non-peer reviewed scholarships

1. Tummons E, Henderson R, **Rohloff P**. (2011). So that we don't lose words: Reconstructing a Kaqchikel medical lexicon. In: Coronel-Molina SM, McDowell JH, editors. *Proceedings of the First Biennial Symposium on Teaching Indigenous Languages in Latin America*; 2008 Aug 14-16; Bloomington, IN. Bloomington: Indiana University; 2011. P 127-135
2. **Rohloff P**, Kraemer Díaz A, Ajsivinac Sian J, editors. *Nim chuwäch k'iyirisanem: Tajin runuk'ik' ruk'aslem ri chwa'q kab'ij pan Iximulew (Beyond development: Building collective futures in Guatemala)*. *Proceedings of the 1st Collective Futures Conference*; 2009 Jul 25-27; Santiago Sacatepéquez, Guatemala. Bethel (VT): Wuqu' Kawoq; 2011.
3. **Rohloff P**. *Desnutrición en Guatemala (Malnutrition in Guatemala)*. In: Rohloff P, Kraemer Díaz A, Ajsivinac Sian J, editors. *Nim chuwäch k'iyirisanem: Tajin runuk'ik' ruk'aslem ri chwa'q kab'ij pan Iximulew (Beyond development: Building collective futures in Guatemala)*. *Proceedings of the 1st Collective Futures Conference*; 2009 Jul 25-27; Santiago Sacatepéquez, Guatemala. Bethel (VT): Wuqu' Kawoq; 2011. p. 169-176.

4. Tummons E, Henderson R and **Rohloff P**. (2012). Language Revitalization and the Problem of Development in Guatemala: Case Studies from Health Care. In: Proceedings of the Second Biennial Symposium on Teaching and Learning Languages of Latin America; 2011 Oct 30-Nov 2; Notre Dame, IN. Notre Dame: University of Notre Dame; 2012. p. 1-17.
5. Fathima SN, Palmius N, Clifton D, **Rohloff P**, Clifford GD, Hall-Clifford R. (2014). Sanitation-related disease surveillance using community health promoters and mobile phone technology. In: Proceedings of Seminar on Appropriate Healthcare Technologies for Low Resource Settings; 2014 Sept 17-18; London, England. London: The Institution of Engineering and Technology; 2014. p. 1-4.
6. Stroux L, King NE, Fathima SN, Hall-Clifford R, **Rohloff P**, Clifford GD (2014). A low-cost perinatal monitoring system for use in rural Guatemala. In: Proceedings of Seminar on Appropriate Healthcare Technologies for Low Resource Settings; 2014 Sept 17-18; London, England. London: The Institution of Engineering and Technology; 2014. p. 1-4.
7. Flood F**, Chary A, Austad K, Kraemer Díaz A, Garcia P, Martinez B, Lopez Canu W, **Rohloff P**. Insights into global health practice from the agile software design movement. *Global Health Action*. 2016; 9:29836. doi: 10.3402/gha.v9.29836.
8. Martinez B**, Webb MF, Rodas P, Gonzalez A, del Pilar Grazioso M, **Rohloff P**. Field report: Early child development in rural Guatemala. *Perspectives in Infant Mental Health*. 2016;24(1-2):6-8.
9. Flood DC**, Chary AN, Austad K, Garcia P, **Rohloff PJ**. A patient navigation system to minimize barriers for peritoneal dialysis in rural, low-resource settings: case study from Guatemala. *Kidney Int Reports* 2017; <https://doi.org/10.1016/j.ekir.2017.02.020>
10. Austad KE**, Shah P ,Shryer H, Chary A, **Rohloff P**. Use of progesterone implants in low-resource settings: preliminary outcomes of a longitudinal cohort of progesterone implant users in rural Guatemala. *Contraception*, 96 (4):294-294; 10.1016/j.contraception.2017.07.118 OCT 2017
11. Valderrama CE, Marzbanrad F, Stroux L, Martinez B, Hall-Clifford R, Liu C, Katebi N, Rohloff P, Clifford GD. Improving the quality of point of care diagnostics with real-time machine learning in low literacy LMIC settings. In: Proceedings of ACM SIGCAS Conference on Computing and Sustainable Societies. New York, NY: Association for Computing Machinery. https://doi.org/10.475/123_4
12. Colom M, Austad K, Sacuj N, Larson K, Rohloff P. Expanding access to primary healthcare for women through a microfinance institution: A case study from rural Guatemala. *Healthc (Amst)*. 2018 Feb 7. Doi: 10.1016/j.hjdsi.2017.12.003.

Reviews, chapters, monographs, and editorials

1. Docampo R, de Souza W, Miranda K, **Rohloff P**, Moreno SNJ. Acidocalcisomes—Conserved from bacteria to man. *Nat Rev Microbiol*. 2005;3:251-61.
2. Moreno SNJ, Miranda J, Fang J, **Rohloff P**, de Souza W. Calcium storage and homeostasis in *Toxoplasma gondii*. In: Weiss L, Kim K, editors. *Toxoplasma gondii: The model apicomplexan—perspectives and methods*. New York: Academic Press; 2007. p. 245-64.
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* denotes co-first author

** denotes first author who was my mentee.

NARRATIVE REPORT

My principal effort at BWH and HMS is in **Clinical Expertise and Innovation**, with a focus on managing complex chronic medical illnesses of both adults and children. I have a clinical practice within the Hospital Medicine Unit at BWH/DFCI, where I serve as attending physician coordinating the care of patients with chronic multisystem diseases, including severe cardiovascular and renal diseases and complications from malignancy and organ transplantation. Through my affiliation with BWH's DGHE, I translate this clinical experience into health care delivery innovations and outcomes research for patients suffering from chronic illness in Guatemala and other global health settings. My remaining time is devoted to teaching and administrative tasks.

Area of Excellence: I have many years' experience translating and adapting evidence-based approaches to chronic disease management into practical, outcomes-driven approaches for low- and middle-income countries. Most of my work is in Guatemala, where I am the co-founder of a large primary health care system, Wuqu' Kawoq | Maya Health Alliance. In this setting, I have pioneered numerous clinical innovations. These include: developing a model for teaching cultural competencies to clinicians providing care to indigenous populations; building capacity for the utilization of QI methods in chronic disease management; and implementing EMR systems. As a result of these innovations, I am considered a regional expert in chronic disease management. Within Guatemala, I am routinely consulted by both the public and the private sectors for advice on the management of pediatric nutritional disorders, pediatric genetic and metabolic disorders, and adult diabetes and malignancy. Outcomes from my work have been published in both the anthropology literature (in important journals such as *Human Organization*) and the medical literature (in important journals such as *Global Health: Science and Practice*). I am also regularly asked to talk both locally and nationally about my global health work. For 2016, I was Visiting Scholar in Latin American Studies at Vanderbilt University and gave the Annual Medicine-Pediatrics Lectureship at Boston Children's Hospital. For 2017, I was awarded the Excellence in Humanitarianism Award from the Hospital Medicine Unit at BWH.

Significant Supporting Activity, Investigation: In order to support my interests in clinical innovation and QI in global health, I have developed a significant research program. My research on barriers to health care access and QI outcomes in Guatemala has resulted in 25 peer-reviewed articles, as well as numerous editorials, chapters and conference presentations. I am Co-Investigator on a clinical trial, funded by the NIH, which uses smart phones to improve obstetrical outcomes by providing decision support to rural lay midwives in Guatemala. I recently completed a randomized clinical trial, funded by Grand Challenges Canada, which evaluated the impact of a home-based

nutrition intervention for severely malnourished Guatemalan children. Currently I am also PI on another R21 grant funded by the NIH to investigate chronic kidney disease epidemiology in Guatemala, PI on a Charles Hood Investigator Award to improve the neonatal continuum of care in rural Guatemala, and co-PI on a Grand Challenges Canada Award to improve obstretrical emergency referrals for Guatemalan women using care navigation techniques.

Teaching: I am an active teacher at HMS, participating as guest lecturer in global-health-focused courses and serving as core faculty in global health at BCH. Since 2005, I have served as primary mentor for 5 HMS students, all of whom have received funding to conduct one-year research experiences with me in Guatemala. As of 2016, I am a designated mentor for the Doris Duke International Fellowship.

Summary: I am a physician and global health innovator active in QI and health care delivery science, patient care, and the training of medical students and residents. These activities occur at BWH, BWFH, BCH, and HMS, with a particular focus on my global health activities on the management of chronic diseases in Guatemala, conducted under the auspices of my affiliation with BWH's DGHE.