

# HARVARD MEDICAL SCHOOL

## CURRICULUM VITAE

**Date Updated:** September 5, 2019

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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	Hospitalist 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
2012-2018	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*

2009-2017	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  
Heliyon  
World Development  
British Medical Journal Paediatrics Open  
Annals of Global Health  
Social Science and Medicine  
Child: Dare, Health and Development

International Developmental Pediatrics Association Abstract Review Panel (2017 meeting, Mumbai, India) (2019 meeting, Manila, Philippines)

#### *Other Editorial Roles*

2009-2017	Series Editor	Proceedings of Futuros Colectivos (Guatemala)
2018-present	Associate Editor	British Medical Journal Paediatrics Open

#### **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, 33<sup>rd</sup> 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.
- 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 was 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)

This project evaluated 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.

2018            The effect of occupations and school attendance on rural adolescent girls' nutritional status in Guatemala: a mixed methods study  
New York Academy of Sciences  
Co-PI (PI: Joaquin Barnoya)

This project evaluated the impact of school and employment status on physical activity and diet quality among adolescent girls in rural Guatemala

### **Current**

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 Wearable Sensors for Early Identification of Poor Neurodevelopment 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 investigate the correlation between limb movement early in life and later developmental outcomes in infants at risk for developmental delay.

Expected Review Date: March 2019

- 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 2019
- Pending      An implementation science approach to optimize community-based, non-pharmacological interventions for hypertension and other cardiovascular disease risk factors in 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 lifestyle and self-management interventions for adults with elevated cardiovascular risk.
- Expected Review Date: February 2019
- Pending      An individualized approach to promote nurturing care in low and middle income countries: A hybrid effectiveness/implementation trial of the international Guide for Monitoring Child Development
- National Institutes of Health/NICHD  
R01  
PI – Direct Costs Requested - \$1,000,000
- This project will conduct a cluster randomized trial of the international Guide for Monitoring Child Development in India and in Guatemala
- Expected Review Date: February 2019

**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 <sup>nd</sup> -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 <sup>st</sup> -year medical students	University of Illinois at Urbana-Champaign College of Medicine 20 hours per week for 16 weeks
2005- 2006	Human Pathology 2 <sup>nd</sup> -year medical students	University of Illinois at Urbana-Champaign College of Medicine 10 hours per week for 32 weeks

2005-2006	Medical Epidemiology 2 <sup>nd</sup> -year medical students	University of Illinois at Urbana-Champaign College of Medicine 10 hours per week for 32 weeks
2007	Medicine and Society 4 <sup>th</sup> -year medical students	University of Illinois at Urbana-Champaign College of Medicine One invited two-hour lecture
2007	Introduction to Health Professions 4 <sup>th</sup> -year premedical students	University of Illinois at Urbana-Champaign College of Medicine One invited two-hour lecture
2008	Introduction to Clinical Medicine 2 <sup>nd</sup> -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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*University of Florida Courses*

2018	Language and Healthcare	Institute for Collaborative
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Graduate students in linguistics and anthropology

Language Research,  
University of Florida  
Department of Linguistics,  
Gainesville FL.  
2 hours per day for 1 week

*HMS/HSDM/DMS Courses*

2015- Mixed Methods in Global Health Research  
present GH706.0  
Advanced medical and graduate students

Harvard Medical School  
Two invited three-hour  
lectures per year

*Other Harvard University Courses*

2014- Society and its Effects on Child Health SSH220-  
present 01  
Advanced public health students

Harvard School of Public  
Health, Boston, MA  
One invited two-hour  
lecture per year

**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

2013- Pediatrics Advocacy Curriculum: Global  
present Health  
Pediatrics Interns

Boston Children's  
Hospital  
Two-hour lecture four  
times per year

**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

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
2013- present	Inpatient Overnight Internal Medicine Attending Physician, Supervising Senior Medical Resident Consults/ Brigham and Women’s Hospital	4 hours per month
2016- present	Inpatient Daytime Hospitalist Attending, Supervising Housestaff and Physician Assistants on Inpatient Service/Brigham and Women’s Hospital	17 weeks per year

**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
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
2016- present	Supervision of Harvard Medical Student awardees of the Doris Duke International Fellowship/ Harvard Medical School	1:1 supervision two hours per week

**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.
- 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 multiple peer reviewed manuscripts.
- 2013-2018 Jillian Moore, HMS Class of 2018  
 Conducted initial research on palliative care in Guatemala under my supervision, which resulted in a 2017 Doris Duke International Fellowship to continue the work. Several peer reviewed manuscripts.
- 2015-2017 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. One peer reviewed manuscript.

### **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.

- 2010-2017 Anita Chary, MD, PhD/ Emergency Medicine Resident, Harvard Medical School  
*Career stage:* undergraduate, graduate, and medical student. *Mentoring role:* research advisor. *Accomplishments:* numerous peer reviewed publications in medical anthropology; PhD in medical anthropology at Washington University School of Medicine in St. Louis (WUSTL), St. Louis, MO; prestigious Olin Women's Fellowship from WUSTL.
- 2010-2017 Caitlin Baird Peterson, PhD/ Anthropologist  
*Career stage:* graduate student and research scientist. *Mentoring role:* research advisor. *Accomplishments:* prestigious Interamerican Foundation Grassroots Development Fellowship
- 2011-2012 Eric Sorenson, MD/Dermatology Fellow, OHSU Hospital, Portland OR  
*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/Center for Family Health, Jackson MI  
*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/Internal Medicine Resident, Rutgers University  
*Career stage:* post-doctoral researcher. *Mentoring role:* research advisor. *Accomplishments:* 10 peer-reviewed publications, 2017 Research Award from the American Academy of Pediatrics, internal medicine residency slot in USA.
- 2015-2017 Meghan Farley Webb, PhD/ Assistant Professor, Albion College.  
*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, faculty position in anthropology.
- 2015-2017 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.

- 2015-present Kirsten Austad, MD/ Attending Physician at Boston Medical Center, Boston, MA  
*Career stage:* resident, fellow. *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; subsequently faculty position at Boston Medical Center.
- 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.  
*Accomplishments:* large national mapping study of nutrition research in Guatemala, with significant press and government attention
- 2019-present Madeline Perry, BS/Medical Student/University of Cincinnati  
*Career stage:* medical student. *Mentoring role:* research advisor.  
*Accomplishments:* Fulbright International Fellowship to study in Guatemala. 2 peer reviewed manuscripts in process.

### **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
- 2018 Managing Inborn Errors of Metabolism in Guatemala  
Department of Genetics and Metabolism Seminar Series, Boston Children's Hospital

## **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 75<sup>th</sup> 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      T'iq'omaj q'i': 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
- 2018      Language and Global Health: Lessons from 10 years of unlocking better  
health outcomes through language in rural Guatemala (with Brent  
Henderson)/Invited Plenary  
Institute on Collaborative Language Research, University of Florida,  
Gainesville, FL
- 2019      Mobile Health with Midwives  
Invited talk  
New Models to Reduce Maternal Mortality in Rural Areas of Guatemala  
Symposium, Universidad de San Carlos de Guatemala, Guatemala City,  
Guatemala
- 2019      Effects of Chronic Malnutrition: What works and what doesn't work?  
Keynote Speaker  
Dialogue on the future of early childhood in Guatemala, United Way,  
Guatemala City, Guatemala

#### **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 Atilán, Santiago Atilán, 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
- 2018 Navegación de cuidado de cancer en Guatemala [Care navigation for cancer in Guatemala]/Invited Talk  
St. Jude's Central and South American Network Online Meeting



- 2019 Sociocultural considerations in advancing cervical cancer prevention and control  
Workshop on Opportunities and Challenges in Cervical Cancer Prevention in Guatemala, Universidad Rafael Landivar/ Invited Panelist
- 2019 The intersection of mHealth and cervical cancer  
Workshop on Opportunities and Challenges in Cervical Cancer Prevention in Guatemala, Universidad Rafael Landivar/ Invited Panelist

**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-<br>2017    | Ambulatory Care   | Internal Medicine/Pediatrics,<br>Brigham and Women’s Faulkner<br>Hospital, Jamaica Plain, MA | One session per<br>month   |
| 2013-<br>present | Hospital Medicine | Inpatient Adult Medicine, Brigham<br>and Women’s Hospital/Dana<br>Farber Cancer Institute    | 17 weeks per year<br>(daytime teaching<br>service); 24<br>shifts/year<br>(nighttime<br>nonteaching<br>service with 2<br>hrs/teaching per<br>shift) |

**Clinical Innovations**

- |   |  |
|---|--|
| Primary Health System Design in<br>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 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. Recently, as a result of this visibility, I lead a subcontracted effort to a large microfinance organization in Guatemala to expand the model to all of their clients throughout rural Guatemala, results published in the *Journal of Delivery Science and Innovation*

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

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*.

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

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*.

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

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, we participated in a clinical trial provide decision support to lay midwives through phones linked to this EMR. Results of this clinical trial have now been

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

published in leading engineering journals, such as the *Journal of Medical Engineering & Technology*, and medical journals, such as *Reproductive Health*.

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 and outcomes of this program was reported in *BMC Health Service Research*, the *International Journal of Quality in Health Care*, and *Preventing Chronic Disease*. This work led to a recent award from the World Diabetes Foundation to scale up the model, which is ongoing.

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” and individualized dietary counseling to the chronic malnutrition paradigm, results which were recently evaluated in a randomized clinical trial funded by Grand Challenges Canada and with results published in the *British Medical Journal Paediatrics Open*.

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.

Care Navigation Strategies in Rural Healthcare Delivery. Wuqu' Kawoq | Maya

A major recent effort has been the design of training programs and interventions to use care navigators

Health Alliance, Guatemala (2017-present) creatively in rural Guatemala to improve the continuum of care for obstetrical care and for the management of complex illnesses. We have published widely on this model in *Human Organization*, the *Journal of Delivery Science and Innovation*, and the *Journal of Global Oncology* among other journals. Currently we are concluding a pragmatic longitudinal evaluation of the success of the model at improving facility level obstetrical care with funding from Grand Challenges Canada.

## REPORT OF TECHNOLOGICAL AND OTHER SCIENTIFIC INNOVATIONS

Smart-phone-based decision support application for lay midwives (2017-2018)

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

I served 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. The application was featured in a front-page spread in Guatemala's newspaper of record *Prensa Libre* on August 26, 2018 ("App Salva Vidas" [App Saves Lives], <https://www.pressreader.com/guatemala/prensa-libre/20180826/281479277275442>)

Open-source methods for fetal heart rate estimation from one-dimensional Doppler ultrasound (2017-present).

Published in *Physiological Measurement*.

I serve as a clinical collaborator collecting clinical Doppler ultrasound recordings in rural Guatemala. Working with an engineering team (PI Dr. Gari Clifford) at Emory University, we are training algorithms on these recordings to improve the usability of low-cost ultrasound in remote low-resource settings.

Smart-phone-based decision support application for neonatal care (2018-present)

With funding from the Charles Hood Foundation, I have developed an Android application to facilitate neonatal examination by frontline workers in rural Guatemala. Evaluation of impact of the application on neonatal outcomes is ongoing.

## **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 21<sup>st</sup> 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.

17. Cnop K\*\*, Hawkins J, Chary A, Flood D, Austad K, Martinez B, Lopez W, **Rohloff P.** Helping the most vulnerable: using patient navigators to strengthen health systems in Guatemala. 2018 Feb 27 [cited 2018 May 1]. In Healthcare: The Journal of Delivery Science and Innovation Blog [Internet]. New York: Elsevier. c2018-. Available from: <https://healthcarethejournal.org/2018/02/27/helping-the-most-vulnerable-using-patient-navigators-to-strengthen-health-systems-in-guatemala/>

18.

*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<sup>+</sup>-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 Ca<sup>2+</sup>-ATPase 1 (TbPMC1) and 2 (TbPMC2) genes encode functional Ca<sup>2+</sup>-ATPases localized to the acidocalcisomes and plasma membrane and essential for Ca<sup>2+</sup> 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<sup>+</sup>-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 Zn<sup>2+</sup>-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**, Heimburger 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.
40. Austad K\*\*, Shah P, **Rohloff P**. Correlates of long-acting reversible contraception uptake in rural women in Guatemala. *PLoS One* 2018 Jun 27;13(6):e0199536.
41. Martinez B\*\*, Webb MF, Gonzalez A, Douglas K, Grazioso MDP, **Rohloff P**. Complementary feeding intervention on stunted Guatemalan children: a randomized controlled trial. *BM Paediatr Open* 2018; 2(1):e000213.
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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, including serving as the Director for the Global Health Track on Hospital Medicine at BWH and as an Associate Editor at BMJ Paediatrics Open.

**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 was 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 another 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, co-PI on a Grand Challenges Canada Award to improve obstetrical emergency referrals for Guatemalan women using care navigation techniques, and PI on a World Diabetes Foundation award to scale up self-management interventions for type 2 diabetes.

**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.