

# Holly Michelle Zandoni

617-331-1627 • <http://holly.m.zandoni@gmail.com> • <https://www.linkedin.com/in/hollyzandoni/>

## EDUCATION

### ***Master of Science, Geographic Information Science for Development & Environment (GISDE)***

Clark University, Worcester, Massachusetts 5/2015

### ***Graduate Certificate, Global Health***

University of North Carolina Gillings School of Public Health, Chapel Hill, North Carolina 12/2011

### ***Bachelor of Arts, Geography***

Rutgers University, New Brunswick, New Jersey 5/1999

## SKILLS

**GIS & Remote Sensing:** ESRI (ArcGIS, ArcPro, Story Maps), GeoDa, QGIS, IDRISI TerrSet, ERDAS, ENVI

**Quantitative, Qualitative & Mixed Methods:** SPSS, R, NVivo, ATLAS.Ti, Dedoose

**Other:** Writing (technical, grant, proposal), EndNote, Microsoft Office, REDCap

## WORK EXPERIENCE

### ***Research Assistant***

Brigham & Women's Hospital, Boston, Massachusetts 7/2015 – 1/2017

- Coded qualitative interviews to identify key themes & collaborated on preliminary intervention manual to inform HIV intervention in South Africa
- Developed, managed & performed quality assurance for multiple clinical research databases
- Assisted with graphics, research & writing for manuscripts, progress reports, study surveys, IRB & grant applications

### ***Data Manager***

Massachusetts General Hospital at McCord Hospital, Durban, South Africa 1/2010 – 3/2013

- Developed, managed & performed quality assurance for two clinical research databases
- Edited manuscripts & produced graphics for publication in peer-reviewed journals & for international conferences
- Worked closely in public, semi-private & private hospital settings in both rural & urban areas

### ***Budget Analyst***

Leidos (formerly SAIC) at NASA-Johnson Space Center, Houston, TX 7/2005 – 8/2007

- Collaborated on initial proposal for NASA's Constellation Program (Flight Equipment Dept., five-year, \$9 billion)

### ***Engineering Assistant***

Leidos (formerly SAIC) at NASA-Johnson Space Center, Houston, TX 9/2002 – 7/2005

- Edited technical documents, produced graphics & presented reports in direct support of spacewalk missions
- Produced preliminary "pirouette maneuver" graphics for the STS-114 return-to-flight mission

### ***GIS Analyst***

Leidos (formerly SAIC), Chantilly, Virginia 2/2000 – 9/2002

- Improved management of geospatial data within USDA by evaluating business requirements, researching technology trends & presenting best-practice architectures
- Constructed climate, soil & vegetation models of synthetically-generated terrain for joint military exercises
- Conducted scientific imagery analysis (GeoCover) for the Army by delineating vegetation classification characteristics
- Generated geospatial databases to support military crisis operations; Operation Enduring Freedom
- Designed & created webpage for (company) marketing of geospatial products & services

## PUBLICATIONS & PRESENTATIONS

- Jiang Y, **Zanoni, H**, Fan F. *Global Diffusion Pattern & Hot Spot Analysis of Vaccine-preventable Diseases*. 2<sup>nd</sup> International Symposium on Spatiotemporal Computing. Harvard University, Boston (MA); scheduled 7-9 Aug 2017.
- Earnshaw VA, Bogart LM, Courtney I, **Zanoni H**, Bangsberg DR, Orrell C, Goggin K, Katz IT. *Exploring Treatment Needs and Expectations for People Living with HIV in South Africa*. 12<sup>th</sup> International Conference on HIV Treatment and Prevention Adherence. Miami (FL); 4-6 Jun 2017.
- Zanoni BC, Phungula T, **Zanoni HM**, France H, Cook EF, Feeney ME. *Predictors of Poor CD4 and Weight Recovery in HIV-infected Children Initiating ART in South Africa*. PLoS One. 2012 Mar 16;7(3):e33611.
- Zanoni BC, Phungula T, **Zanoni HM**, France H, Feeney ME. *Risk Factors Associated with Increased Mortality Among HIV-infected Children Initiating Antiretroviral Therapy (ART) in South Africa*. PLoS one. 2011 Jul 29;6(7):e22706.
- Zanoni BC, Phungula T, **Zanoni HM**, France H, Feeney ME. *Impact of Tuberculosis Co-treatment on Viral Suppression Rates Among HIV Positive Children Initiating HAART*. AIDS. 2011 Jan 2;25(1):49-55.
- Fatale L, Speir F, Williams K, **Zanoni H**. *Evaluation of GeoCover LC<sup>TM</sup> Accuracy for Army Environmental Applications*. Hunter G, Lowell K, editors. Fifth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences. Department of Geomatics, The University of Melbourne (Australia); 2002.

## VOLUNTEER WORK

### **Second Deputy Director**

Umdemini Care Program (UCP), Boston, Massachusetts & KwaXimba, South Africa 1/2012 – current

- Performed suitability analysis using geographic information science (GIS) to identify areas of limited access to care
- Applied spatial statistics to analyze patients linked to care (demonstrate trend over time)

### **Project Coordinator**

Umdemini Care Program (UCP), KwaXimba, South Africa 12/2007 – 5/2008

- Maximized project effectiveness by identifying program weaknesses & implemented quality measures to meet project milestones
- Developed specific performance measures & established clear operational definitions
- Implemented conceptual model & geographic map to reinforce team expectations
- Successfully mobilized team by establishing inclusive (i.e., stakeholder) working environment
- Trained three people to efficiently manipulate (Access/Excel) databases, ethically collect & interpret data

## RELEVANT COURSEWORK

**Global Public Health:** Infectious Disease Epidemiology, Principles of Epidemiology, M&E, Data Quality for Global Health Programs, Critical Issues in Global Public Health, Global Health Ethics, Geographic Approaches to Global Health, Basic Course in HIV Diagnosis & Management, Malaria

**Quantitative & Qualitative Analysis:** Intermediate Quantitative Methods, Decision Methods, Qualitative Analysis

**GIS:** Advanced Geospatial Analysis (SPSS, R), Raster GIS, Vector GIS, Remote Sensing, GIS Techniques for M&E

**Geography:** Africa's Development in Global Context, Development Management in Developing Countries, Nongovernmental Organizations as Catalysts for Development, Human Geography, Human Transformation of the Global Environment, History & Theory of Geography, Geographic Research Methods, Grant Writing for Community Development

## INTERNATIONAL TRAVEL EXPERIENCE (\* LIVED AT LOCATION)

**Africa:** Zimbabwe, Zambia, Swaziland, South Africa\*, Namibia, Mozambique, Lesotho, Botswana\*

**Asia:** United Arab Emirates

**North America:** Guatemala, Costa Rica, Mexico, Canada