

## Morgan Vigil-Hayes

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CONTACT INFORMATION	2833 State Street, Apt. E Santa Barbara, CA 93105	209-617-5593 mvigil@cs.ucsb.edu
TEACHING & RESEARCH INTERESTS	Network analysis, wireless networks, online social networks, community networks, ICTD	
EDUCATION	<b>University of California</b> , Santa Barbara, CA Ph.D., Computer Science, <i>Expected</i> : Summer 2017 Thesis Topic: <i>Community-based Networks for Challenged Environments: Characterizing Opportunities and Designing Solutions</i> Advisor: Elizabeth Belding, Ph.D. <b>Westmont College</b> , Santa Barbara, CA B.S., Computer Science, December 2011 <i>Summa Cum Laude</i>	
RESEARCH EXPERIENCE	<b>Research Assistant</b> Department of Computer Science, University of California Supervisor: Elizabeth Belding, Ph.D. <b>Research Assistant</b> Department of Computer Science, University of Washington Supervisor: Gaetano Borriello, Ph.D.	September 2012 to present  June 2013 to August 2013
PEER REVIEWED PUBLICATIONS	<ol style="list-style-type: none"><li><b>Vigil-Hayes, M.</b>, Belding, E., Zegura, E. “FiDO: A Community-based CDN for Challenged Network Environments,” <i>in submission</i>, 2017.</li><li><b>Vigil-Hayes, M.</b>, Duarte, M., Parkhurst, N.D., Belding, E., “<i>#Indigenous</i>: Tracking the Connective Actions of Native American Advocates on Twitter,” <i>CSCW 2017</i>, Portland, OR, USA. March 2017.</li><li>Schmitt, P., <b>Vigil, M.</b>, Belding, E., “A Study of MVNO Data Paths and Performance,” <i>PAM 2016</i>, Heraklion, Crete, Greece. March 2016.</li><li><b>Vigil, M.</b>, Belding, E., Rantanen, M., “Repurposing FM: Radio Nowhere to OSNs Everywhere,” <i>CSCW 2016</i>, San Francisco, CA, USA. March 2016.</li><li>Brunette, W., <b>Vigil, M.</b>, Pervaiz, F., Levari, S., Borriello, G., Anderson, R. “Optimizing Mobile Application Communication for Challenged Network Environments,” <i>ACM DEV 2015</i>, London, England, UK. December 2015.</li><li>Zheleva, M., Schmitt, P., <b>Vigil, M.</b>, Belding, E. “Internet Bandwidth Upgrade: Implications on Performance and Usage in Rural Zambia.” <i>Information Technologies &amp; International Development (ITID)</i>. 11:2, 1–18. Spring 2015.</li><li><b>Vigil, M.</b>, Rantanen, M., Belding, E., “A First Look At Tribal Web Traffic.” <i>WWW '15</i>, Florence, Italy. May 2015.</li><li>Zheleva, M., Schmitt, P., <b>Vigil, M.</b>, Belding, E., “The Increased Bandwidth Fallacy.” <i>ACM DEV '13</i>, Cape Town, South Africa. December 2013.</li><li>Zheleva, M., Schmitt, P., <b>Vigil, M.</b>, Belding, E., “Bringing Visibility to Rural Users in Ivory Coast.” <i>ICTD '13</i>, Cape Town, South Africa. December 2013.</li></ol>	

10. Zheleva, M., Schmitt, P., **Vigil, M.**, Belding, E., “Community Detection in Cellular Network Traces.” *ICTD '13*, Cape Town, South Africa. December 2013.
11. Schmitt, P., Zheleva, M., **Vigil, M.**, Belding, E., “Communication Flow Patterns in the Orange Telecom D4D Dataset.” *NetMob '13*, Boston, MA. January 2013.

AWARDS

University of California, Santa Barbara  
 Doctoral Scholars Fellowship, 2012–2017  
 NSF Graduate Research Fellowship Program Fellowship, 2013–2016  
 Microsoft Graduate Women’s Scholarship, 2013

Westmont College  
 Grace Hopper Award for Top Computer Science Graduate, 2012  
 David K. Winter Servant Leader Award, 2011  
 Presidential Scholar, 2008–2011  
 NSF Computer Science Scholarship, 2008–2011

PRESENTATIONS

Technical Conferences

Repurposing FM, <i>CSCW 2016</i> , San Francisco, CA, USA	March 2016
First Look at Tribal Web Traffic, <i>WWW 2015</i>	May 2015
Localized Content for Village Schools, <i>MobiSys 2015</i>	May 2015
Social Media Locality in a Tribal Network, <i>ACM DEV 2014</i>	December 2014

Technical Symposia

Can Radio Kill the Coverage Gap?, <i>CWIC SoCal</i> , Ventura, CA, USA	April 2016
Localized Content for Rural Schools, <i>CWIC SoCal</i> , Carlsbad, CA, USA	April 2014

TEACHING  
EXPERIENCE

Instructor	Summer 2015
<b>CMPSC 16 - Problem Solving with Computers (C++)</b>	
Department of Computer Science, University of California, Santa Barbara	
Teaching Assistant	2009–2010
<b>CS 10 - Introduction to Programming II (Scheme)</b>	
Instructor: Wayne Iba, Ph.D. Department of Computer Science, Westmont College	
<b>CS 30 - Introduction to Programming III (Ruby)</b>	
Instructor: Kim Kihlstrom, Ph.D. Department of Computer Science, Westmont College	
<b>CS 45 - Computer Architecture and Organization</b>	
Instructor: Kim Kihlstrom, Ph.D. Department of Computer Science, Westmont College	

SERVICE

Academic Community

INFOCOM	2014
<i>Appointed reviewer</i>	

University

American Indians in Science and Engineering Society (AISES) September 2015 – current  
*Co-advisor*  
 Met with current American Indian and Indigenous undergraduates that were pursuing STEM degrees to offer support, guidance, and mentoring.

## Department

First Winter Research Colloquium for students

February 2015

*Program organizer*

Planned a department-wide colloquium event to give exposure to current student research via 5 minute lightning talks. This included implementing a structured survey mechanism which enabled faculty and peers to provide feedback to speakers in real-time.

Graduate Admissions Committee

January 2015 – May 2015

*Student representative*

Acted as a student representative on the graduate admissions committee, helped identify the most eligible candidates for the program, and acted as a student liason between prospective students and the department.

Women in Computer Science (WiCS)

October 2012 – May 2015

*Co-president and outreach coordinator*

Coordinated monthly coffee-hours for women in the computer science department. Led outreach efforts to local junior high and high schools to increase interest in computing. Coordinated Q & A sessions between distinguished speakers and WiCS.

Graduate Student Workshop Committee (GSWC)

2013–2014

*Program organizer and reviewer*

Organized the program for the annual Graduate Student Workshop, which included both paper and poster presentations for the department. Reviewed peer submissions to the workshop program and provided feedback.

## REFERENCES

Elizabeth Belding

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Department of Computer Science  
University of California, Santa Barbara

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Ellen Zegura

Professor of Computer Science  
School of Computer Science  
Georgia Institute of Technology

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Wayne Iba

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