

Ryan L. Burns

<http://burnsr77.github.io> · ryan.burns1@ucalgary.ca · 859-582-9125

Academic Employment

- 2016-present Assistant Professor
Department of Geography, University of Calgary
- 2015-2016 Assistant Professor of Instruction
Department of Geography and Urban Studies, Temple University

Education

- 2009-2015 Ph.D., Geography
University of Washington
Committee: Sarah Elwood, Mark Ellis, Vicky Lawson, Jin-Kyu Jung (Interdisciplinary Arts & Sciences, UW-Bothell)
Dissertation title: *Digital Humanitarianism and the Geospatial Web: Emerging Modes of Mapping and the Transformation of Humanitarian Practices*
- 2010-2015 Work toward Certificate in Public Scholarship, Simpson Center for the Humanities, UW
- 2009 M.S., Geographic Information Science
San Diego State University
Committee: André Skupin, Stuart Aitken, Eniko Csomay (Linguistics)
Thesis title: *Spatializing Places, People, and Utterances – A Case Study Involving San Diego Neighborhoods*
- 2006 B.A., Geography, Magna Cum Laude
Eastern Kentucky University

Affiliations

- HASTAC Scholar, *Humanities, Arts, Science, and Technology Alliance and Collaboratory (HASTAC)*
- Member, *Standby Task Force (digital humanitarian organization)*
- Member, *Gamma Theta Upsilon (international geographic honorary society)*
- Member, *International Association of Emergency Managers*
- Member, *Association of American Geographers (AAG)*

Grants, Fellowships, and Awards

2016-2019	\$150,000. University of Calgary, Human Dynamics Research Strategy. “The Social and Environmental Implications of Smart Cities: A Global Comparative Research Agenda”. PI: Byron Miller Co-PIs: Gwendolyn Blue, Ryan Burns , Dean Curran, Victoria Fast, Noel Keough, Jack Lucas, Greg Morrow, Elizabeth Paris, Matt Patterson, Marit Rosol, Alan Smart, Josephine Smart, Eliot Tretter, Kathryn Reese-Taylor, Melanie Rock, Frank Towers, Aaron Williams
2013	\$3,000. UW Graduate School Gerlach Award
2011-2012	\$1,000. Simpson Center for the Humanities Graduate Interest Group Funding
2011	\$750. Simpson Center for the Humanities Travel Funds
2011	\$556. Howard Martin Research Grant
2011	\$500. UW Graduate School Fund for Excellence and Innovation
2011	\$250. UW Graduate & Professional Student Senate Travel Fund
2009	\$1,800. International Cartographic Association (ICA) Travel Scholarship
2009	\$9,000. UW Geography Top Scholar Award
2009	\$500. Cartography & Geographic Information Society (CaGIS) Master’s Award
2007	\$6,600. SDSU McFarland Award
2007	\$50. SDSU Map Design Competition winner
2005	\$5,000. School for International Training – “Culture, Language, and Development in Vietnam” research scholarship

Research Activities

2016 (invited)	Ethics of Location-Based Technologies in Crisis Workshop. American Association for the Advancement of Science. Washington, DC. Invited as participant.
2016	Summer Institute in Economic Geography. University of Kentucky, Lexington. Selected as participant.
2015	Fellow, Data Science for Social Good Fellowship. eScience Institute, University of Washington. http://escience.washington.edu/what-we-do/data-science-for-social-good
2014	"Revisiting Critical GIS". Friday Harbor Laboratories, Friday Harbor, WA. Selected as participant.
2013	Oxford Internet Institute Summer Doctoral Programme i-School, University of Toronto, Canada
2011	Bergen Summer Research School University of Bergen, Norway

Publications

Peer Reviewed Articles and Book Chapters

- In press Burns, Ryan. Synergizing Geoweb and Digital Humanitarian Research. In Thatcher, J., A. Shears, J. Eckert (eds.), *The Geoweb and Geography: (Re)Thinking Research in the Advent of Big Data*. Lincoln, NE: University of Nebraska Press.
- 2015 Thatcher, Jim, L. Bergmann, B. Ricker, R. Rose-Redwood, D. O’Sullivan, T. Barnes, L. Barnesmoore, L. Beltz Imaoka, R. Burns, J. Cinnamon, C. Dalton, C. Davis, S. Dunn, F. Harvey, J.-K. Jung, E. Kersten, L. Knigge, N. Lally, W. Lin, D. Mahmoudi, M. Martin, W. Payne, A. Sheikh, T. Shelton, E. Sheppard, C. Strother, A. Tarr, M. Wilson, J. Young. “Revisiting Critical GIS: Reflections from Friday Harbor”. *Cartography and Geographic Information Science*.
- 2015 Burns, Ryan, D. Meek. Introduction: The Politics of Knowledge Production in the Geoweb. *ACME: An International E-Journal for Critical Geographies*.
- 2015 Schwartz, B., B. Tellman, R. Burns, C. Andersson. Big Data, Satellites, and Disaster Monitoring. In *UN Human Development Report 2015*. Incorporated into *Global Sustainable Development Report*:
<https://sustainabledevelopment.un.org/content/documents/1758GSDR%202015%20Advance%20Unedited%20Version.pdf> (last accessed 6/16/2015).
- 2014 Burns, Ryan, J. Thatcher. Guest Editorial: What’s So Big about Big Data? Finding the Spaces and Perils of Big Data. *GeoJournal*. <http://link.springer.com/article/10.1007/s10708-014-9600-8> (last accessed 10/21/2014).
- 2014 Burns, Ryan. Rethinking Big Data in Digital Humanitarianism: Practices, Epistemologies, and Social Relations. *GeoJournal* 80(4):477-490. <http://link.springer.com/article/10.1007/s10708-014-9599-x> (last accessed 10/15/2014).
- 2014 Burns, Ryan. Moments of Closure in the Knowledge Politics of Digital Humanitarianism. *Geoforum* 53 (2): 51-62.
- 2013 Shanley, Lea, R. Burns, Z. Bastian, E. Robson. Tweeting Up a Storm: The Promise and Perils of Crisis Mapping. *Photogrammetric Engineering & Remote Sensing* 79 (10): 865-879.
- 2013 Burns, Ryan, A. Skupin. Towards Qualitative Geovisual Analytics: A Case Study Involving Places, People, and Mediated Experience. *Cartographica* 48(3): 157-176.

Edited Journal Issues (with Peer Review)

- In review Burns, Ryan, N. Lally. “Toward a Geographical Software Studies.” Special Issue of *Computational Culture*.
- Accepted Burns, Ryan, C. Dalton, J. Thatcher. “Making More out of Data: Advancing Critical Data Studies.” Special Issue of *Professional Geographer*.
- 2015 Burns, Ryan, D. Meek. “The Politics of Knowledge Production in the Geoweb.” Special Issue of *ACME: An International E-Journal for Critical Geographies*.

- 2014 Burns, Ryan, J. Thatcher. "What's So Big about Big Data? Finding the Spaces and Perils of Big Data." Special Issue of *GeoJournal*.

Conference Proceedings and White Papers

- 2013 Burns, Ryan, L. Shanley. Connecting Grassroots to Government for Disaster Management: Workshop Summary. Woodrow Wilson International Center for Scholars. <http://www.scribd.com/doc/165813847/Connecting-Grassroots-to-Government-for-Disaster-Management-Workshop-Summary> (last accessed 3/7/2014).
- 2012 Burns, Ryan. Connecting Grassroots to Government for Disaster Management. Woodrow Wilson International Center for Scholars. <http://bit.ly/OC4kmD> (last accessed 9/18/2012).
- 2009 Burns, Ryan, A. Skupin. Mapping Places, People, and Utterances to Visualize the Experience of Place. In Proceedings of the 24th International Cartographic Conference, Santiago, Chile (CD-ROM). <http://bit.ly/POhGuu> (last accessed 9/12/2012).

Published Maps

- 2011 [Collection of 3 maps] In Ramamurthy, P., "Rearticulating Caste: The Global Cottonseed Commodity Chain and the Paradox of Smallholder Capitalism in South India," *Environment and Planning A* 43: 1035-1056.
- 2011 [Collection of 5 maps/screenshots from the *Mapping Youth Journeys* project website] In K. Mitchell, S. Elwood, "Creating Engaged Students and Civic Actors through Mapping Local History," *Journal of Geography* 111(4): 148-157.
- 2010 [Collection of 6 maps about poverty in the Pacific Northwest] In V. Lawson, L. Jarosz and A. Bonds, "Dumping Grounds and Unseen Grounds: Placing Race, Ethnicity and Poverty in the American Northwest," *Annals of the Association of American Geographers* 100(3): 655-677.
- 2007 Map of Ecuador, Including the Extension of Páramo Grasslands and the Location of the Agglomerados, S.A. (ACOSA) Plantation. In K. Farley, "Grasslands to Tree Plantations: Forest Transition in the Andes of Ecuador," *Annals of the Association of American Geographers* 97(4): 760.

Conference Presentations

Papers presented

- 2016 (invited) "Big Data, digital humanitarianism, and smart cities: New directions for GIScience research". **Invited presentation** at San Diego State University Department of Geography: San Diego, CA.
- 2016 (accepted) "Smart cities, open data, and knowledge politics: Blank spots in cartographic representations". NACIS 2016: Colorado Springs, CO. Withdrew due to scheduling conflicts.

- 2016 (accepted) "The inequalities of economic and representational inclusion in digital 'solutions' to urban crisis". Regional Studies Association: Smart City-Regional Governance for Sustainability. Dresden, Germany.
- 2016 "Everyday disruptions, digital restorations: Community engagement and resistance to digital humanitarianism". Annual Meeting of the AAG: San Francisco, CA.
- 2015 "'Let the private sector take care of this': Toward a Political Economy of Digital Humanitarianism". Annual meeting of the AAG. Chicago, IL.
- 2014 "Crisis Mapping as Social Process: Research and Policy Implications of New Digital Technologies". **Invited keynote presentation** at Crisis Mapping Seminar, Heidelberg University, Germany.
- 2014 "The Digital Humanitarian Moment: New Practices, Knowledge Politics, and Philanthro-capitalism." University of Washington Department of Geography Colloquium. Seattle, WA.
- 2014 "Rethinking Knowledge Politics through Digital Humanitarianism." Annual meeting of the AAG. Tampa, FL.
- 2012 "Digital Public Scholarship: Mapping Youth Journeys." College of Arts & Sciences Dean's Showcase. *HuskyFest 2012*. Seattle, WA.
- 2012 "Beyond Inclusion and Empowerment: Inequality in the Geoweb." Annual meeting of the AAG. New York, NY.
- 2011 "Software-sorted Geographies of the Urban Global South." Annual meeting of the AAG. Seattle WA.
- 2010 Mitchell, K. & R. Burns [equal contribution] "Mapping Engagement: Using Basic Geovisualization Technologies to Help Children Become Better Geographers and Better Citizens." **Plenary session**, Fall meeting of the Association of Washington Geographers.
- 2010 "'Exploring Geovisualization': Reflections, Ideas, and Questions." Annual meeting of the AAG. Washington, D.C.
- 2009 "Visualization of Attribute Spaces Involving Places, People and Utterances." International Cartographic Conference. Santiago, Chile.
- 2009 "Spatializing Places, People, and Utterances- A Case Study Involving San Diego Neighborhoods." Annual meeting of the AAG. Las Vegas, NV.
- 2008 "Landscapes of Participatory Dialogue: Participation and Geovisualization in AgoraXchange." Annual Meeting of the AAG. Boston, MA.
- 2008 Verutes, G., R. Burns "Visualizing Linguistic Variation within University Classroom Discourse." Annual Meeting of the AAG. Boston, MA.
- 2007 "...things seen are temporal, things unseen are eternal.." Association of Pacific Coast Geographers. Long Beach, CA. Co-presenters: Christopher Moreno, Sean Crotty, Steven Jareb, Mike Beland, Jenny Duncan, Karen Stahl.
- 2006 "Globalization and the Cultural Significance of Bookstores in Viet Nam." Undergraduate Presentation Showcase, Eastern Kentucky University. Poster presentation.

- 2005 “Is Small-town Kentucky Ready to Grow? Community Readiness for Growth and Development Along the I-75 Corridor.” Posters-at-the-Capitol, Frankfort, KY. Poster presentation. Co-presented with Ricardo Hernandez.

Panel Participation & Sessions Organized

- 2016 Organizer. “Hipster Geographies: Socio-spatial Practices, Politics, and Economies of Culture’s Most Maligned Figure”. Annual Meeting of the AAG. San Francisco, CA. Organizer with Cristina Temenos and Jesse McClelland. (2 sessions)
- 2016 Organizer. “Toward a Geographical Software Studies”. Annual meeting of the AAG. San Francisco, CA. Organizer with Nick Lally. (4 sessions)
- 2015 Consultant. “Academic Partnerships with HOT”. Humanitarian OpenStreetMap Team Summit. Organizer: Robert Soden.
- 2015 Organizer. “Critical Data, Critical Technology: in Theory.” Annual meeting of the AAG. Chicago, IL. Organizer with Jim Thatcher and Craig Dalton. 2 sessions.
- 2015 Organizer. “Critical Data, Critical Technology: in Praxis.” Annual meeting of the AAG. Chicago, IL. Organizer with Jim Thatcher and Craig Dalton.
- 2015 Organizer. “On the Political Economy of Geospatial Technologies.” Annual meeting of the AAG. Chicago, IL. Organizer with Jim Thatcher and Craig Dalton.
- 2014 Panelist. “Publishing, not Perishing: A Student’s Guide to Academic Publishing.” Annual meeting of the AAG. Tampa, FL.
- 2014 Panelist. “alt.conference on Big Data: Lightning Panel.” Annual meeting of the AAG. Tampa, FL.
- 2013 Organizer. “Whither Small Data?: The Limits of ‘Big Data’ and the Value of ‘Small Data’ Studies.” Organizer with Jim Thatcher. Annual meeting of the AAG. Los Angeles, CA. Presenting panelists: Rob Kitchin, Jim Thatcher, Ralph Schroeder (Oxford Internet Institute, Oxford University), Taylor Shelton. Discussant: Andrés Monroy-Hernández (Microsoft Research).
- 2013 Organizer. “Critical Interventions into Gender & the Geoweb.” Organizer with Monica Stephens. Annual meeting of the AAG. Los Angeles, CA. Presenting panelists: Brent Hecht, Monica Stephens, Michele Masucci, Adrienne Wadewitz (Center of Digital Learning and Research, Occidental College).
- 2012 Organizer. “Connecting Grassroots to Government for Disaster Management: A Policy Roundtable.” Organizer with Lea Shanley, John Crowley, and Alyson Lyons. Washington, DC. For list of panelists, see:
http://www.wilsoncenter.org/sites/default/files/GrassrootstoGovernmentAgenda-9.9.12_0.pdf
- 2011-2012 Organizer. Series of 6 panels and roundtables on “Making the University Public”, a Graduate Interest Group through the Simpson Center for the Humanities, UW. Seattle, WA. Panels included: Susan Jeffords (Vice Chancellor for Academic Affairs, UW – Bothell), Kari Lerum

(UW – Bothell), Tad Hirsch (Design, UW), Jentery Sayers (English, University of Victoria), John Vallier (UW Libraries), Richa Nagar (Department of Gender, Women, and Sexuality Studies, University of Minnesota).

- 2011 Organizer. “Critical Perspectives on Software & Space.” Organizer with Joe Eckert. Annual meeting of the AAG. Seattle, WA. Presenting panelists: Mark Graham, Matt Zook, Rob Kitchin, Wendy Chun (Modern Culture and Media, Brown University). Chair: Sarah Elwood. Discussant: Matt Wilson.

Discussant

- 2014 “Disaster Time: Critical Perspectives on Crisis Informatics and the Temporal Aspects of Disasters.” Annual meeting of the AAG. Tampa, FL. Organized by Barbara Poore and Sophia Liu. Presenters: Katrina Petersen (Communication, University of California – San Diego), Megan Finn (Microsoft Research, University of Washington), Sophia Liu (USGS).
- 2013 “Critical Interventions into Gender & the Geoweb.” Annual meeting of the AAG. Los Angeles, CA. Presenting panelists: Brent Hecht, Monica Stephens, Michele Masucci, Adrienne Wadewitz (Center of Digital Learning and Research, Occidental College).
- 2013 “Crowdsourcing Crisis in the GeoWeb: A Critical Look.” Annual meeting of the AAG. Los Angeles, CA. Organized by Barbara Poore and Sophia Liu. Presenters: Katrina Petersen (Communication, University of California – San Diego), Andrés Monroy-Hernández (Microsoft Research), Megan Finn (Microsoft Research), Cameran Ashraf (University of California – Los Angeles).

Additional Research Activities

- 2014 Research Assistant: Dr. Matt Dunbar, Center for Studies of Demography and Ecology
- 2009-2012 Research Assistant: Dr. Sarah Elwood, *Mapping Youth Journeys*
- 2009-2010 Assistant: Dr. Katharyne Mitchell, *Top This Parenting*
- 2008-2009 GIS Specialist: Helix Environmental Planning, Inc.
- 2007 GIS Analyst/Cartographer: Baja Directions (bathymetric cartography company)
- 2006-2007 SDSU Geography Graduate Assistant: Dr. Kathleen Farley
- 2006-2007 GIS Analyst: IGIS Technologies, Inc. (GIS services consulting company)
- 2005 Volunteer Assistant: Dr. Dan Weir, mapping a derelict cemetery for future renovation and restoration. My particular involvement was to map the gathered GPS coordinates.
- 2003-2006 Assistant: Dr. David Zurick, researching culture change in the Himalayas based on US-based travel agencies there.
- 2003-2006 Assistant: Dr. Bruce Davis, producing an online atlas of the South Pacific using ArcScan and ArcIMS.

Teaching

Temple University

- 2016 Web and Mobile GIS (2 sections)
- 2015-2016 Digital Mapping (2 sections)
- 2015-2016 Fundamentals of GIS (3 sections)

University of Washington

- 2015 GIS Databases and Programming
- 2014 Cultural Geography
- 2013 The Making of World Regions (Online course)
- 2012 Urban GIS

Invited Lectures

- 2016 (invited) Guest lecture in GEOG 463: Cities, Poverty, and Development (UofC)
- 2016 Guest lecture in ENST 2097: Research Design in Environmental Studies (TU)
- 2014 Guest lecture in GEOG 360: Introduction to GIS (UW)
- 2014 Guest lecture in GEOG 277: Geographies of Cities (UW)
- 2012 Guest lecture in GEOG 469/569: GIS Workshop (UW)
- 2012 Guest lecture in GEOG 461/561: Urban GIS (UW)
- 2010 “Participatory Mapping” Imagining America Site Visit (UW)

Teaching Assistant

- 2014 UW Geography Teaching Assistant: *Introduction to GIS*
- 2012 UW Geography Teaching Assistant: *Urban GIS, GIS Workshop*
- 2007-2008 SDSU Geography Teaching Assistant: *Introduction to GIS* (twice), *Map Investigation*, and *Animated Cartographic Design*

Student supervision

- 2016 Jessica Waldinger, Spring 2016 CARAS Project Grant

Professional Service

- 2015-2016 Professional Science Master’s in GIS Steering Committee

2013-2014	Secretary and Treasurer, <i>Geographic Information Systems & Science Specialty Group of the AAG</i>
2012-2013	Leadership Collective Member, <i>Socialist & Critical Geography Specialty Group of the AAG</i>
2012-2013	Research Assistant, <i>Commons Lab, Woodrow Wilson International Center for Scholars</i>
2008-2012	Webmaster, Socialist & Critical Geography Specialty Group of the AAG
2011-2012	Primary Project Liaison, “Making the University Public” Graduate Interest Group
2011-2012	Graduate Policy Committee Representative, Department of Geography, UW
2010-2011	Co-president (with Chris Lizotte) of the Geography Dept Graduate Student Association
2007-2008	SDSU Geography Colloquium Planning Committee
2002-2006	EKU Honors Program scholar
2002-2004	EKU Geography Club President once and Secretary twice

Manuscript Reviews

Philosophical Transactions

New Media & Society

GeoJournal (x2)

Cartographica

Geography Compass (x3)

Plenum: A Journal of Geography (x2)

International Journal of Applied Geospatial Research

US National Report to the International Cartographic Association

Community and Public Scholarship

2015	Formatting and Sharing Your Syllabus with Markdown and Github. Invited workshop at Temple University, 10/30/2015.
2014	Impact Evaluation Framework public portfolio, in partial fulfillment of graduate certificate in public scholarship.
2013	Interview for the Digital Humanitarian Network, “Guidance for Collaborating with Formal Humanitarian Organizations.” http://app.box.com/s/w25sqotkg4qc2f2ch1ii .
2012-2013	Participation in various digital humanitarian activations (Samoa, Dominican Republic, Typhoon Bopha)
2012	Interview for <i>Simpson Center for the Humanities News</i> , “Doctoral Student Ryan Burns Selected to Present on Digital Scholarship at UW HuskyFest 2012.” http://bit.ly/HUCIQS .
2012	Interview for <i>UW Today</i> , “UW Leads in Connecting Scholarship with Community.” http://bit.ly/yQ77sX .

- 2011 Attended Imagining America public scholarship conference. Coverage in “Certificate in Public Scholarship Fellows Represent UW at Imagining America Conference.” *Simpson Center for the Humanities Center News*. <http://bit.ly/IgG6bl>.
- 2010 Volunteered in “Participatory Mapping” Imagining America conference site visit
- 2005 Coverage of volunteer research work in “Researchers Hope to Map, Identify Graves in Abandoned Cemetery.” *Diverse Issues in Higher Education*. <http://bit.ly/Jx7d2h>.

Technical Proficiencies

Mapping and GIS

- ArcGIS
- QGIS
- Mapbox, Tilemill
- Mapserver, Geoserver
- OpenStreetMap
- Google Earth, MyMaps
- Leaflet.js
- Omeka
- D3

Programming and Scripting

- JavaScript (inc. Leaflet, D3, OpenLayers, JQuery, AJAX)
- Python (inc. ArcGIS geoprocessing, Geo/Django, Shapely, Fiona)
- PHP
- ActionScript
- C++ (a little)
- Java (minimal)
- R (minimal)

Data and databases

- Geo/Topo/JSON
- MySQL
- PostGres
- NoSQL (a little Hadoop and MongoDB)

Web Development

- Django
- GitHub (inc. Pages)
- Wordpress
- HTML/CSS
- Sahana
- Ushahidi
- Azure, Amazon Web Services

Signed and dated:

A handwritten signature in black ink that reads "Ryan Burns". The script is cursive and fluid, with the first name "Ryan" and last name "Burns" written in a single line.

Ryan Burns, PhD

July 20, 2016