

Ryan L. Burns

Curriculum Vitae

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Academic Appointments

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

Affiliations

- 2017-present Faculty Member, O'Brien Institute for Public Health, University of Calgary
- 2017-present Mentor, Scholars Academy, University of Calgary
- 2021 Visiting Scholar, Department of Geography, University of British Columbia (Winter Term 2021)
- 2021 Visiting Teaching Fellow, Department of Sociology, University of Antwerp (Spring Term 2021)
- 2019 Instructor, Arts & Sciences Honours Academy, University of Calgary

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)
- 2006 B.A., Geography, Magna Cum Laude, Honors
 Eastern Kentucky University

Grants, Scholarships, and Awards

External research awards

- 2020 \$200,000. Partnership Development Grant, Social Sciences and Humanities Research Council (SSHRC). "Smart Cities in Global Comparative Perspective: Worlding and

- Provincializing Relationships”. **Co-applicant**. PI: Byron Miller; 22 Co-applicants; 6 collaborators. Total funding including partner contributions: \$427,979.
- 2019 \$525,000. Canadian Institutes of Health Research (CIHR). “Artificial Intelligence for Public Health (AI4PH): A Focus on Equity and Prevention”. **Collaborator**. 5 PIs, 23 Co-investigators, 29 Collaborators.
- 2018 \$53,655. SSHRC Insight Development Grant. “The Politics of Knowledge Representation in Open Data and Smart Cities” **PI: Ryan Burns**.
- 2018 \$16,500. Urban Alliance: City of Calgary and University of Calgary. “Exploring North American Municipal Data Sharing Agreements”. **PI: Ryan Burns**. City of Calgary Collaborators: Nichole Wyatt, Cameron Stark.
- 2017 \$25,000. SSHRC Connection Grant. “The Social and Environmental Implications of Smart Cities: Toward a Global Comparative Research Agenda.” PI: Byron Miller. Co-applicants: **Ryan Burns**, Victoria Fast, Jack Lucas, Matthew Patterson, Frank Towers, Eliot Tretter. Collaborators: Gwendolyn Blue, Dean Curran, Elizabeth Paris, Melanie Rock, Marit Rosol, Alan Smart, Aaron Williams.
- 2017 \$27,600. Andrew W Mellon Foundation, through University of Calgary Library. Academic Research and University Libraries: Creating a New Model for Collaboration. “Open Data for a Smarter City: Creating A Data Infrastructure Pilot Initiative”. **PI: Ryan Burns**. Co-applicants: Anthony Levenda, Byron Miller, Victoria Fast, Dean Curran, Steve Liang, Eliot Tretter, Alex Whalley.
- 2017 \$5,000. SSHRC, through University of Calgary. Partnership Development Seed Grant. Co-applicant.
- 2017 \$3,422. SSHRC, through University of Calgary. Insight Development Enhancement Grant. **PI: Ryan Burns**.
- 2013 \$4,000. United Nations Office for the Coordination of Humanitarian Affairs: “Humanitarian Research and Innovation Grant”. **PI: Ryan Burns**, Kenny Meesters.
- 2009 \$500. Cartography & Geographic Information Society (CaGIS) Master’s Award.

Internal research awards

- 2020 \$750. Professional Development Grant, Graduate Students’ Association. PI: Ricardo Barbosa. To cover open access fees for our co-authored article in *Journal of Maps*.
- 2019 \$10,000. Innovate Calgary Catalyzing Change Internship.
- 2017-2020 \$7,000 total: \$3,000 (2017), \$2,000 (2019), \$2,000 (2020). Calgary Institute for the Humanities Working Group. “Social Justice and the Smart City”. 2017 conveners: Anthony Levenda, **Ryan Burns**, Victoria Fast, Dean Curran, Noel Keough, Elizabeth Paris, Frank Towers. 2019 conveners: **Ryan Burns**, Victoria Fast, Debra MacKinnon, Byron Miller, Elizabeth Paris, Matt Patterson (alphabetical). 2020 conveners: **Ryan Burns**, Dean Curran, Victoria Fast, Noel Keough, Debra MacKinnon, Byron Miller, Alan Smart (alphabetical).

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.
2019	\$110,000. Eyes High Postdoctoral Scholars Competition. 2 years of funding, \$55,000 each. Co-PIs: Ryan Burns , Victoria Fast.
2018	\$5,000. Vice President of Research, University of Calgary. Conference Grant. To support the 13 th Annual Critical Geographies Mini-Conference. PI: Ryan Burns .
2018	\$1,000. Faculty of Arts, University of Calgary. Scholarly Activity Grant. To support the 13 th Annual Critical Geographies Mini-Conference. PI: Ryan Burns .
2018	\$680. Quality Money. Graduate Student Association. To support the 13 th Annual Critical Geographies Mini-Conference. Co-applicant with organizing committee graduate students.
2018	\$500. Latin American Research Centre. To support the 13 th Annual Critical Geographies Mini-Conference. Co-applicant.
2017	\$2,500. University of Calgary, Hunter Hub for Entrepreneurial Thinking Global Entrepreneurship Week Engagement Fund. Co-applicant.
2013	\$3,000. UW Graduate School Gerlach Award
2011	\$556. Howard Martin Research Grant
2009	\$9,000. UW Geography Top Scholar Award

Recognitions and honours

2019-present	Future Leaders Council, O'Brien Institute for Public Health (anonymously nominated).
2019	Graduate Student Association Excellence Award in Graduate Supervision (nominated, competitively adjudicated, and awarded)
2017	Department of Geography Graduate Student Association Recognition Award: “Significant Contributions to the Graduate Student Experience” (anonymously nominated and awarded)
2007	\$6,600. SDSU McFarland Award
2007	\$50. SDSU Map Design Competition winner
2006	Honored with Key to the City of Berea, Kentucky

Travel scholarships

2020	\$7,500. Campus Alberta Grant for International Learning, to support the 2019 Smart Cities Asia field school.
2016	\$1,500. University of Calgary, Vice President of Research Faculty Conference Travel Grant
2011-2012	\$1,000. Simpson Center for the Humanities Graduate Interest Group Funding
2011	\$750. Simpson Center for the Humanities Travel Funds
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

Research Activities

2020	Knowledge and Digital Technology; 19 th symposium of the Klaus Tschira Symposia on Knowledge and Space. Heidelberg University, Heidelberg, Germany . June 10-12, 2020. Personal invitation.
2018	Technology, Law, and Society Summer Institute. University of California – Irvine. Competitive application.
2018	Globalization and Digitization — (New) Geoinformation Relationships in the World. Forum for the Study of the Global Condition: Jena, Germany . Personal invitation as participant and keynote speaker in 4-day workshop.
2017	Ethical Issues of Digital Humanitarianism. Personal invitation as participant and keynote speaker for one-day workshop. Montreal, QC.
2016-2017	Ethics of Location-Based Technologies in Crisis Workshop. American Association for the Advancement of Science: Washington, DC. Personal invitation as participant for three workshops.
2016	Summer Institute in Economic Geography. University of Kentucky, Lexington. Competitive application.
2015	Data Science for Social Good Fellowship. eScience Institute, University of Washington. http://escience.washington.edu/what-we-do/data-science-for-social-good . Competitive application.
2014	"Revisiting Critical GIS". Friday Harbor Laboratories, Friday Harbor, WA. Personal invitation.
2013	Oxford Internet Institute Summer Doctoral Programme. i-School, University of Toronto, Canada. Competitive application.
2011	Bergen Summer Research School. University of Bergen, Norway . Competitive application.

Publications

Peer Reviewed Articles and Book Chapters

- 2019 **Burns, Ryan**, G. Wark. Where's the Database in Digital Ethnography? Exploring Database Ethnography for Open Data Research. *Qualitative Research*. <https://doi.org/10.1177/1468794119885040>.
- 2019 **Burns, Ryan**. New Frontiers of Philanthro-capitalism: Digital Technologies and Humanitarianism. *Antipode* 51(4):1101-1122. <https://doi.org/10.1111/anti.12534>.
- 2018 **Burns, Ryan**. Datafying Disaster: Institutional Framings of Data Production following Superstorm Sandy. In N. Heynen (ed.), *Social Justice and the City*. Routledge. ISBN: 978-1-138-32274-5. <https://www.routledge.com/Social-Justice-and-the-City/Heynen/p/book/9781138322745>
- 2018 **Burns, Ryan**. Datafying Disaster: Institutional Framings of Data Production following Superstorm Sandy. *Annals of the American Association of Geographers* 108(2): 569-578. <https://doi.org/10.1080/24694452.2017.1402673>.
- 2018 **Burns, Ryan**. Synergizing Geoweb and Digital Humanitarian Research. In Thatcher, J., A. Shears, J. Eckert (eds.), *Thinking Big Data in Geography: New Regimes, New Research*, 214-229. Lincoln, NE: University of Nebraska Press.
- 2018 **Burns, Ryan**, C. Dalton, J. Thatcher (alphabetical). Introduction: Critical Data, Critical Technology in Theory and Practice. *Professional Geographer* 70(1): 126-128. <https://doi.org/10.1080/00330124.2017.1325749>.
- 2017 **Burns, Ryan**, N. Lally. Introduction: Toward a Geographical Software Studies. Introduction to special section of *Computational Culture*.
- 2016 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. *Environment & Planning A* 48(5): 815-824. <https://doi.org/10.1177/0308518X15622208>.
- 2015 **Burns, Ryan**, D. Meek. Introduction: The Politics of Knowledge Production in the Geoweb. *ACME: An International E-Journal for Critical Geographies* 14(3): 786-790.
- 2014 **Burns, Ryan**, J. Thatcher. Guest Editorial: What's So Big about Big Data? Finding the Spaces and Perils of Big Data. *GeoJournal*. <https://doi.org/10.1007/s10708-014-9600-8>.
- 2014 **Burns, Ryan**. Rethinking Big Data in Digital Humanitarianism: Practices, Epistemologies, and Social Relations. *GeoJournal* 80(4):477-490. <https://doi.org/10.1007/s10708-014-9599-x>.
- 2014 **Burns, Ryan**. Moments of Closure in the Knowledge Politics of Digital Humanitarianism. *Geoforum* 53 (2): 51-62. <https://doi.org/10.1016/j.geoforum.2014.02.002>.
- 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. https://www.wilsoncenter.org/sites/default/files/October_Highlight_865-879.pdf (last accessed Nov 10, 2019).

- 2013 **Burns, Ryan**, A. Skupin. Towards Qualitative Geovisual Analytics: A Case Study Involving Places, People, and Mediated Experience. *Cartographica* 48(3): 157-176. <https://doi.org/10.3138/carto.48.3.1691>.

Book Chapters without Peer Review

- 2019 **Burns, Ryan**. Instagram: A City of Digital Engagement. In R. Kitchin, J. Shaw, M. Graham, S. Mattern (eds.), *How to Run the City Like A Corporation, and Other Fables*. Meatspace Press. <https://shop.meatspacepress.com/product/how-to-run-a-city-like-amazon-and-other-fables>
- 2019 **Burns, Ryan**. “Let the Private Sector Take Care of This”: The Philanthro-capitalism of Digital Humanitarianism. In M. Graham (ed.), *Digital Economies at the Global Margins* (129-152). Cambridge, MA: MIT Press.
- 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 2015*: <https://bit.ly/1QIWGfe> (last accessed 11/10/2019).

Edited Journal Issues (with Peer Review)

- Accepted Miller, Byron, **R. Burns**, V. Fast, A. Levenda. “Between Provincializing and Worliding Smart Cities”. Special Issue of *Urban Studies*. (Manuscripts due 12/15/2018)
- Accepted Thatcher, Jim, R. Burns, C. Dalton. “Regional Approaches to data, environment, and society”. Special issue of *Regional Studies*.
- Invited Harvey, Francis, R Ghose, **R Burns**. “Public Participation in 2020: New Forms, new modes, new questions?”. Special issue of *International Journal of Geographic Information*.
- 2018 **Burns, Ryan**, C. Dalton, J. Thatcher. “Critical Data, Critical Technology in Theory and Practice.” Special Issue of *Professional Geographer*.
- 2017 **Burns, Ryan**, N. Lally. “Toward a Geographical Software Studies.” Special Section of *Computational Culture*.
- 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, White Papers, Op-Eds, Reviews, and Encyclopedia Entries

- In press **Burns, Ryan**. COVID-19 Editorial. *Dialogues in Human Geography*. Submitted 4/16/2020.

- Accepted **Burns, Ryan**, P. Welker. Moral Economies of Open Data Platforms. Association of Internet Researchers 2020: Virtual conference.
- 2020 Thatcher, Jim, **R. Burns**, T. Lauriault. Digital Geographies. In Audrey Kobayashi (ed.) *International Encyclopedia of Human Geography*, 335-340. New York: Elsevier. <https://doi.org/10.1016/B978-0-08-102295-5.10537-2>.
- 2020 Burns, Ryan. Spatializing Digital Labour: A Reading List. Working Paper for Engaging Open Data Research. <https://osf.io/3jrs5/>.
- 2019 **Burns, Ryan**. Review of S. Noble, “Algorithms of Oppression”. *Antipode*. Review symposium including J. Thatcher, B. Hawkins, O. Igbinedion, with Safiya Noble’s response. <https://antipodeonline.org/wp-content/uploads/2019/11/2.-Ryan-Burns.pdf>.
- 2019 **Burns, Ryan**, G. Gurung. *Opening Up: Emerging Perspectives on Data Sharing*. Policy white paper delivered to the City of Calgary, as part of an Urban Alliance funded project.
- 2019 **Burns, Ryan**, B. Hawkins, A.-L. Hoffman, A. Iliadis, J. Thatcher. Transdisciplinary Approaches to Critical Data Studies. ASIS&T 2018 conference proceedings (657-660). <https://doi.org/10.1002/pa2.2018.14505501074>.
- 2018 **Burns, Ryan**. Internet Mapping. In B. Warf (ed.), *The Sage Encyclopedia of the Internet*. <http://dx.doi.org/10.4135/9781473960367.n150>.
- 2018 Hawkins, Blake, **R. Burns**. Queering (Meta)data Ontologies. Gender & IT 2018 conference. <https://doi.org/10.1145/3196839.3196875>.
- 2017 **Burns, Ryan**. 8 Ways Canadian Academics Can Resist the Trump Administration. *University Affairs* “In My Opinion”. <http://www.universityaffairs.ca/opinion/in-my-opinion/8-ways-canadian-academics-can-resist-trump> (last accessed 8/23/2017).
- 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). <https://bit.ly/2kIVz75> (last accessed 9/12/2019).

Published Maps

- 2018 Rockaway Peninsula Context. In **Burns, Ryan**. Datafying Disaster: Institutional Framings of Data Production following Superstorm Sandy. *Annals of the American Association of Geographers* 1-10. <https://doi.org/10.1080/24694452.2017.1402673>.
- 2012 [Collection of 5 maps/screenshots from the *Mapping Youth Journeys* project website] In K. Mitchell, S. Elwood. Engaging Students through Mapping Local History. *Journal of Geography* 111(4): 148-157. <https://doi.org/10.1080/00221341.2011.624189>.

- 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. <https://doi.org/10.1068/a43215>.
- 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. www.jstor.org/stable/40863554.
- 2007 Map of Ecuador, Including the Extension of Páramo Grasslands and the Location of the Aglomerados, 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. <https://doi.org/10.1111/j.1467-8306.2007.00581.x>.

Conference Presentations

Papers presented

- Accepted “Moral Economies of Open Data Platforms”. EASST (European Association for the Study of Science & Technology) 2020. Virtual conference. Presentation with Preston Welker.
- Accepted “Moral Economies of Open Data Platforms”. Association of Internet Researchers 2020. Virtual conference (**40% acceptance rate**). Presentation with Preston Welker. In session “Organizing Technoscientific Capitalism: Assets, Rents, and Values” organized by Jane Bjørn Vedel, John Grant Gardner, and Kean Birch.
- 2020 “The Interstitial Smart City: Beyond Top-down and Bottom-up Smartness”. Annual meeting of the AAG: Denver, CO. Presented with Preston Welker. Conference cancelled.
- 2019 “(Digital) Neocolonialism in the Smart City”. 4S 2019 (Society for Social Studies of Science). New Orleans. Presented with Morgan Mouton.
- 2019 “Where’s the Database in Digital Ethnography? Exploring Database Ethnography for Open Data and Smart Cities Research.” Presented in the Department of Geography seminar series.
- 2019 “A Data Story in Two Parts: Smart Cities, Open Data, and Their Inequalities.” **Invited presentation** at Data for Good - Calgary. June 27, 2019.
- 2019 “‘Smart’ Is Not a Thing: Epistemological Framings and Limits of Smart Cities”. Annual meeting of the AAG: Washington, DC.
- 2019 “Positionality, Interests, and Rationalities of the Smart City: Intersecting Roles of Smart City Actors”. Annual meeting of the AAG: Washington, DC. Presented as second author with Byron Miller.
- 2019 “Between Provincializing and Worlding: Theoretical and Epistemological Dilemmas of Comparative Smart City Research”. Comparative Urbanism: Global Perspectives. Urban Studies Institute, Georgia State University.

- 2018 “The Taming of Knowledge: Digital Infrastructures of Humanitarianism” **Invited presentation** at University of Toronto, Toronto, ON. Part of the “Infrastructures of Development” speaker series.
- 2018 “Open Data Portals for Community & Ecology: Convening for Common Good”. Canadian Open Data Summit ’18: Niagara Falls, ON. Primary presenter: Victoria Fast.
- 2018 “Where’s the Database in Digital Ethnography? Exploring Database Ethnography for Open Data and Smart Cities Research”. EASST (European Association for the Study of Science & Technology) 2018. **Lancaster, UK**. Presentation with Grace Wark. In session “Data Worlds? Public Imagination and Public Experimentation with Data Infrastructures” organized by Jonathan Gray, Noortje Marres, Carolin Gerlitz, Tomaso Venturini.
- 2018 “From government to community: ethnographic insights into the political dimension of data production.” **Invited presentation** at University of Exeter, Exeter, **UK**. Co-authored with Grace Wark. Presented with Morgan Mouton.
- 2018 “Smart Cities: Who Cares?” Annual meeting of the AAG. New Orleans, LA. Presented with Max Andrucki.
- 2018 “Development, Normativity, and Criticality: Three Points of Coalescence in Open Data Research and Practice”. **Invited presentation** (by video) at University of Lagos, **Lagos, Nigeria**.
- 2017 “Open Data and Smart Cities: Promises, Questions, Pitfalls, and Hopes”. **Invited presentation** at Macalester College, Minneapolis, MN.
- 2017 “Knowledge Politics and Representational Inequalities in Open Calgary”. Workshop: The Social and Environmental Implications of Smart Cities. Calgary, AB.
- 2017 “Knowledge Politics and Representational Inequalities in Open Calgary”. Nordic Geographers Meeting: **Stockholm, Sweden**.
- 2017 “Data Absences and Strategies: Community Tactics for Self-representation”. Annual Meeting of the AAG: Boston, MA.
- 2017 “Let the Private Sector Take Care of This”: New Intersections of Philanthropy, Humanitarianism, and Capitalism. 54th Annual Geography Department Conference, University of Calgary: Calgary, AB.
- 2016 “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 “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 “Smart cities, open data, and knowledge politics: Blank spots in cartographic representations”. NACIS 2016: Colorado Springs, CO. Accepted, but withdrew due to scheduling conflicts.
- 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.

Panel Participation & Sessions Organized

- 2020 Panelist. “New Voices in Digital Geographies”. **Invited panelist role**. Annual meeting of the AAG. Denver, CO. Organized by Sam Kinsley and Jessica McLean. Conference cancelled.

- 2019 Organizer. “Who knows? Smart cities as epistemology”. 4S 2019 (Society for Social Studies of Science). New Orleans. Organizer with Morgan Mouton. **Competitive application process.**
- 2019 Panelist. “Adaptive Data”. Connections Conference, organized by Calgary Chamber of Voluntary Organizations. **Invited panelist role.**
<https://www.calgarycvo.org/connections-speakers>.
- 2019 Organizer. “Critical New Media and the Urban: Productive Tensions, or Conflicted Antagonisms?”. Annual Meeting of the AAG. Washington, DC. Organized with Eliot Tretter.
- 2019 Organizer. “Gendering the Smart City: Towards Just and Feminist Urban Futures”. Annual Meeting of the AAG. Washington, DC. Organized with Ayona Datta, Nabeela Ahmed, and Max Andrucki.
- 2019 Panelist. “Realizing the value of interdisciplinary research: How can critical theory be ‘applied’ to smart cities?” Annual Meeting of the AAG. Washington, DC.
- 2018 Panelist and Organizer. “Interdisciplinary Critical Data Studies”. Annual Meeting of the Association for Information Science and Technology (**57% acceptance rate**). Vancouver, BC. Collaboration with Blake Hawkins, Anna Hoffman, Andrew Iliadis, Jim Thatcher.
- 2018 Organizer and panelist. “My City Is Smarter than Yours: Deconstructing the Buzzwords”. Annual Meeting of the AAG. New Orleans, LA. Organizer with Victoria Fast.
- 2018 Organizer. “Making Smarter Environments: The Environmental Politics and Practices of Smart Cities”. Annual Meeting of the AAG. New Orleans, LA. Organizer with Anthony Levenda.
- 2018 Panelist. “The Role of Research Communication Outside of Academia”. 55th Annual Geography Department Conference, University of Calgary: Calgary, AB.
- 2017 Organizer. “Urban-economic Perspectives on Technology”. Annual Meeting of the AAG. Boston, MA. Organizer with Daniel Cockayne.
- 2017 Panelist. “Documenting Evidence for Human Rights Tribunals and Litigation Using Geographic Research and Tools.” Annual Meeting of the AAG. Boston, MA.
- 2017 Panelist. “GIS Worker Co-ops: Prospects and Experiments”. Annual Meeting of the AAG. Boston, MA.
- 2017 Panelist. “UBC Urban Studies Lab Panel 3 (Algorithms & Society): Interdisciplinary Theoretical Urban Inquiry.” Annual Meeting of the AAG. Boston, MA.
- 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. Organized by Josef Eckert, Andrew Shears, Jim Thatcher.
- 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

- 2020 "‘Provincialising’ smart urban futures in the Global South." Annual meeting of the AAG. Denver, CO. Organized by Ola Söderström, Ayona Datta, Nancy Odendaal, Diganta Das, Evan Blake. Conference cancelled.

- 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).

Conference Organization

- 2018 Organizer. 13th Annual Critical Geographies Mini-conference. University of Calgary.
- 2017 Co-organizer. “Emerging Theories in Critical Cartography and GIS”. Workshop concurrent with the North American Cartographic Information Society. Montreal, QC. Organizer with Renee Sieber, Jim Thatcher, Britta Ricker, and Luke Bergmann.
- 2017 Co-organizer. “The Social and Environmental Implications of Smart Cities: a Global Comparative Research Agenda”. Workshop at University of Calgary. Co-organizers: Byron Miller, Victoria Fast, Anthony Levenda, Eliot Tretter, Jack Lucas, Frank Towers, Dean Curran.

Teaching

University of Calgary

- 2020 (expected) Web Mapping and Internet GIS
- 2020 Spaces of Urban Politics
- 2019-2020 Urban Studies Capstone (2 sections)
- 2019 Arts and Sciences Honours Academy – “Representation”
- 2019 New Digital Geographies (graduate seminar)
- 2019 Smart Cities Asia: Geography Field School (study abroad)
- 2019 Arts and Sciences Honours Academy – Capstone Course
- 2017-2019 Advanced Research and Applications in GIS (graduate course; 3 sections)
- 2018 Introduction to Geospatial Methods
- 2017-2018 Urban and Environmental GIS (2 sections)
- 2017 Geographic Field Study Methods

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

2019	Guest lecture in GEOG 280: Introduction to Geospatial Methods (UofC)
2017-2018	3 guest lectures in GEOG 231: Introduction to Geospatial Methods (UofC)
2016-2018	5 guest lectures in GEOG 463: Cities, Poverty, and Development (UofC)
2017	Simon Fraser University guest lecture, GSWS 399: Gender, Sex and Numbers
2016-2017	2 guest lectures in GEOG 340: Qualitative Methods in Human-Environment Research (UofC)
2016	Guest lecture in ENST 2097: Research Design in Environmental Studies (TU)
2015	Seminar host in Data Science for Social Good program (UW)
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: <i>Introduction to GIS</i>
2012	UW Geography Teaching Assistant: <i>Urban GIS, GIS Workshop</i>
2007-2008	SDSU Geography Teaching Assistant: <i>Introduction to GIS</i> (twice), <i>Map Investigation</i> , and <i>Animated Cartographic Design</i>

Teaching training programs

- 2020-present Certificate in University Teaching and Learning, conferred by Taylor Institute for Teaching and Learning, University of Calgary. *Deferred to Fall 2020 term.*
- 2016-2017 Teaching Academy, mentored by Jo Towers (Werklund School of Education), University of Calgary

Teaching training courses completed

(1) Inquiry-Based Learning, (2) Course Trailer Workshop, (3) Creating an Effective Course Outline, (4) Course Design Program, (5) Creating Your Teaching Philosophy, (6) The Cure for Death by PowerPoint, (7) Preparing a 3M National Teaching Fellowship Nomination

Advising

Post-doctoral mentorship

- 2019-present **Debra Mackinnon**, PhD, Department of Geography, University of Calgary
- Co-supervised with Victoria Fast, funded through UofC's Eyes High postdoctoral fellowship
- 2017-2019 **Morgan Mouton**, PhD, Department of Community Health Sciences, University of Calgary
- Currently post-doctoral scholar at Lab'Urba, Université Paris-Est Créteil.
 - Post-Doctoral Fellowship in Human-Animal Studies, Co-supervised with Melanie Rock
 - Provided formal mentorship to position: invited as guest lecture, reviewed application materials, and tasked with work related to the "Open Data for a Smarter City" project.
- 2017-2018 **Anthony Levenda**, PhD, Department of Geography, University of Calgary
- Currently Assistant Professor at University of Oklahoma
 - Social and Political Implications of Smart Cities, PI: Byron Miller.
 - Provided informal support, mentorship, and guidance for this position.

Graduate supervision as primary supervisor

- 2019-present **Preston Welker**, Master of Arts, Geography, University of Calgary. Supervisor.
- Awarded the Alberta Graduate Excellence Scholarship (\$11,000)
- 2018-present **Joyce Percel**, PhD student, Geography, University of Calgary. Co-supervisor.
- Awarded the Urban Geography Specialty Group (AAG) travel scholarship (\$750)
- 2017-present **Dare Adeyemi**, Master of Arts, Geography, University of Calgary. Supervisor
- Awarded the Queen Elizabeth II Scholarship (\$10,800)
 - Awarded \$955 in multiple travel grants
- 2017-present **Angela Ambrose**, Master of Arts, Geography, University of Calgary. Supervisor
- Awarded the SSHRC CGS-M (\$18,000)
 - Awarded the SSHRC Michael Smith Foreign Supplement (\$6,000)
 - Awarded the Queen Elizabeth II Scholarship (\$10,800)
 - Awarded \$1,500 in multiple internal travel grants

2017-2019 **Prakash Gautam**, Master in GIS, University of Calgary. Supervisor.

Other graduate supervision

2018-present **Kristy Myles**, Master of Arts, Geography, University of Calgary. Committee member.

2019-2020 **Alexis Montoya**, PhD student, Geography and Urban Studies, Temple University. Committee member.

2019 **Kiran Zahra**, PhD candidate, Geography, University of Zurich

- Supervised for a short visiting scholar position, during which we planned a co-authored article.

2017-2019 **Blake Hawkins**, PhD student, Interdisciplinary Studies, University of British Columbia

- HASTAC Scholar project “Queering Ontologies of (Meta)data”.

2015-2016 **Jing-Huei Huang**, MA. Community service GIS project, Supervisor

- “The Practice Use of Geographic Information System (GIS): East Falls Village – Identify Existing and Target Members”.
- Now in a PhD program at University of North Carolina.

Undergraduate supervision

2019-2020 **Catherine Tran**, University of Calgary Scholars Academy Mentorship program.

2018-2019 **Duncan Lucas**, University of Calgary Scholars Academy Mentorship program.

2018-2019 **Brian Lau**, undergraduate Health & Society honors capstone project

- Co-supervised with Morgan Mouton

2017-2018 **Grace Wark**, undergraduate honors thesis project.

- Recipient of the City of Calgary’s \$1,000 Student Scholarship to attend the Canadian Open Data Summit.

2017-2018 **Dante Renato Bencivenga**. University of Calgary Scholars Academy Mentorship program.

2016 **Jessica Waldinger**, Spring 2016 CARAS Project Grant. Supervisor.

- Now in a master’s degree program at University of Saskatchewan.

Examination committees

2019 **Jiaao Guo**, MGIS, University of Calgary. Internal examiner.

2018 **Wayne Tobbitt**, MGIS, University of Calgary. Internal examiner.

2018 **Yawei Zhao**, PhD, University of Calgary. Internal-external examiner.

2017 **Francisco Uribe**, PhD, University of Calgary. External examiner.

Professional Service

2019-2021 Research and Scholarship Committee, Faculty of Arts, University of Calgary

2019-present Board member, UC Cities: Global Comparative Urban Research. <http://uccities.ca>.

2018-present **Book review editor**, *The Canadian Geographer*

2018-present	Program Advisory Board, Arts & Sciences Honours Academy, University of Calgary
2017-present	International Advisory Board , <i>ACME: International Journal for Critical Geographies</i>
2017-present	Master's in GIS (MGIS) Renewal Committee
2017-present	Mentor, Scholars Academy, University of Calgary
2018-2019	Communications committee chair, <i>Socialist & Critical Geography Specialty Group of the AAG</i>
2017, 2019	Program Committee for <i>Spatial Knowledge and Information – Canada 2017</i>
2017-2018	College of Reviewers applicant – reviewer (twice)
2018	Hiring committee, Faculty of Environmental Design
2015-2016	Professional Science Master's in GIS Steering Committee, <i>Temple University</i>
2013-2014	Secretary and Treasurer, <i>Geographic Information Systems & Science Specialty Group of the AAG</i>
2012-2013	Student Representative, <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</i> , <i>Woodrow Wilson International Center for Scholars</i>
2008-2012	Webmaster, <i>Socialist & Critical Geography Specialty Group of the AAG</i>
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

Peer Reviews

Manuscripts

ACME: An International E-Journal for Critical Geographies (x3), *Big Data & Society*, *Canadian Geographer*, *Cartographica*, *Computational Culture*, *Digital Geography & Society*, *Geoforum* (x3), *GeoJournal* (x3), *Geography Compass* (x3), *(Geo)Spatial Technologies for Urban Health* (book chapter), *International Journal of Applied Geospatial Research*, *International Journal of Disaster Risk Reduction*, *International Political Sociology*, *Journal of Urban Technology*, *New Media & Society*, *Philosophical Transactions*, *Plenum: A Journal of Geography* (x2), Pluto Press (Book reader's report), *Professional Geographer* (x2), *Transactions on Emerging Topics in Computing* (x2), *US National Report to the International Cartographic Association*

Grants

Leverhulme Trust (Research Project Grant Full), *Mitacs Accelerate Research Proposal*, *National Science Foundation (NSF) Standard Grant Application* (x2)

Community and Public Scholarship

- 2020 *MaRS Magazine* interview on smart cities (3/18/2020).
- 2019-2020 Co-chair, Alberta Non-profit Data Strategy – Data Hubs Task Group. (stewardship of PolicyWise, Edmonton, AB).
- 2019 Organizer. “Working with Open Data”. Cyber Summit. Kananaskis Country, AB. Co-organized by **personal invitation** with David Chan and Byron Chu of Cybera.
- 2019 *Calgary Star Metro* interview on open data (3/7/2019).
- 2019 *CBC Calgary* interview on open restaurant inspection data platforms (1/30/2019).
- 2019 Coverage of research in *UToday* (U of Calgary campus newsletter). “Citizens Can Use Data to Improve Their Cities”. <https://bit.ly/2tPRjh6>.
- 2019 St. Paul’s School invited interview for high school podcast (4/26/2019).
- 2018 Inaugural lecture, “Social and Technological Humanitarian Studies” program, University of Calgary. A lecture I organized to report to my department the research I’ve been doing.
- 2018 **Keynote presenter**, “Open Data Community of Practice” workshop. **City of Calgary**, AB.
- 2018 Organizer, “YYC Data Collective Launch Workshop”. Community engagement session for YYC Data Collective, in collaboration with local volunteer and research organizations.
- 2018 Reviewer and Panelist for The Urban Research Network Graduate Student Publishing Workshop
- 2018 Participant in Department of Geography Academic Writing Month Workshop.
- 2017 Judge for the Department of Geography’s 54th Annual Conference
- 2017 2-day University of Calgary map-a-thon for Geography Awareness Week and GIS Day, contributing to Building Canada 2020.
- 2017 Coverage of research in *UToday* (U of Calgary campus newsletter). “Transforming the Role of Academic Libraries in the Research Enterprise.” <http://bit.ly/2xA1ir2>.
- 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 *Simpson Center for the Humanities News*, “Doctoral Student Ryan Burns Selected to Present on Digital Scholarship at UW HuskyFest 2012.” <http://bit.ly/HUCIQS>.
- 2012 Interview for *UW Today*, “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 News*. <http://bit.ly/IgG6bl>.
- 2010 Volunteered in “Participatory Mapping” Imagining America conference site visit
- 2007 Coverage of volunteer mapping work for San Diego wildfires in “AAG Newsletter” 42(11): 1, 6. http://www.aag.org/galleries/newsletter-files/2007_Dec.pdf.
- 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>.

Professional 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, *American Association of Geographers (AAG)*

Additional Research Activities

- 2018 Founder and director, YYC Data Collective. <http://yycdatacollective.ucalgary.ca>
- 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)
- 2006 GIS Intern: City of Berea, Kentucky

Signed and dated:

A handwritten signature in cursive script that reads "Ryan Burns". The ink is dark and the signature is fluid, with the first and last names clearly legible.

Ryan Burns, PhD

May 19, 2020