Ryan L. Burns

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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

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	Department of Geography Graduate Student Association Recognition Award
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
2016	\$1,500. University of Calgary, Vice President of Research Faculty Conference Travel Grant
2013	\$4,000. United Nations Office for the Coordination of Humanitarian Affairs: "Humanitarian Research and Innovation Grant"
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

2017	Ethical Issues of Digital Humanitarianism. Invited 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. **Invited** as participant for three workshops.

Summer Institute in Economic Geography. University of Kentucky, Lexington. Selected as participant.
 Fellow, Data Science for Social Good Fellowship. eScience Institute, University of Washington. http://escience.washington.edu/what-we-do/data-science-for-social-good
 "Revisiting Critical GIS". Friday Harbor Laboratories, Friday Harbor, WA. Selected as participant.
 Oxford Internet Institute Summer Doctoral Programme. i-School, University of Toronto, Canada
 Bergen Summer Research School. University of Bergen, Norway

Publications

Peer Reviewed Articles and Book Chapters

accessed 10/21/2014).

- In press <u>Burns, Ryan</u>. Synergizing Geoweb and Digital Humanitarian Research. In Thatcher, J., A. Shears, J. Eckert (eds.), *Geographic Research in an Age of New (Big) Data*. Lincoln, NE: University of Nebraska Press.
- In press Burns, Ryan, C. Dalton, J. Thatcher (alphabetical). Introduction: Critical Data, Critical Technology Focus Issue. *Professional Geographer*.
- In press <u>Burns, Ryan</u>. "Let the Private Sector Take Care of This": The Philanthro-capitalism of Digital Humanitarianism. In M. Graham (ed.), *Digital Economies at the Global Margins*. Cambridge, MA: MIT Press.
- In press Burns, Ryan. Data Matters: Institutional Framings of Data Production following Superstorm Sandy. *Annals of the American Association of Geographers*.
- Thatcher, Jim, L. Bergmann, B. Ricker, R. Rose-Redwood, D. O'Sullivan, T. Barnes, L. Barnesmoore, L. Beltz Imaoka, <u>R. Burns</u>, 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.
- 2015 <u>Burns, Ryan,</u> D. Meek. Introduction: The Politics of Knowledge Production in the Geoweb. *ACME: An International E-Journal for Critical Geographies* 14(3): 786-790.
- 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%20
- Unedited%20Version.pdf (last accessed 6/16/2015).

 2014 <u>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</u>

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).
 Burns, Ryan. Moments of Closure in the Knowledge Politics of Digital Humanitarianism. *Geoforum* 53 (2): 51-62.
 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.
 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 press	Burns, Ryan, C. Dalton, J. Thatcher. "Making More out of Data: Advancing Critical Data
	Studies." Special Issue of <i>Professional Geographer</i> .

- 2015 <u>Burns, Ryan,</u> D. Meek. "The Politics of Knowledge Production in the Geoweb." Special Issue of *ACME: An International E-Journal for Critical Geographies*.
- 2014 <u>Burns, Ryan</u>, 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, and Encyclopedia Entries

Accepted <u>Burns, Ryan</u>. 8 Ways Canadian Academics Can Resist the Trump Administration. *University Affairs*.

Accepted <u>Burns, Ryan</u>. Internet Mapping. In B. Warf (ed.), *The Sage Encyclopedia of the Internet*.

2013 <u>Burns, Ryan,</u> 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 <u>Burns, Ryan.</u> Connecting Grassroots to Government for Disaster Management. Woodrow Wilson International Center for Scholars. http://bit.ly/OC4kmD (last accessed 9/18/2012).
- 2009 <u>Burns, Ryan,</u> 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

[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 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.

Conference Presentations

Papers presented

2016

2017 (accepted	l) "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. 54 th 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.

- "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. "'Let the private sector take care of this': Toward a Political Economy of Digital 2015 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.
- "The Digital Humanitarian Moment: New Practices, Knowledge Politics, and Philanthro-2014 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. "Exploring Geovisualization': Reflections, Ideas, and Questions." Annual meeting of the AAG. 2010 Washington, D.C. 2009 "Visualization of Attribute Spaces Involving Places, People and Utterances." International Cartographic Conference. Santiago, Chile. "Spatializing Places, People, and Utterances- A Case Study Involving San Diego 2009 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. ."..things seen are temporal, things unseen are eternal.." Association of Pacific Coast 2007 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. Copresented with Ricardo Hernandez. Panel Participation & Sessions Organized 2017 Organizer. "Urban-economic Perspectives on Technology". Annual Meeting of the AAG. Boston, MA. Organizer with Daniel Cockayne.

Panelist. "Documenting Evidence for Human Rights Tribunals and Litigation Using Geographic

Panelist. "UBC Urban Studies Lab Panel 3 (Algorithms & Society): Interdisciplinary Theoretical

Panelist. "GIS Worker Co-ops: Prospects and Experiments". Annual Meeting of the AAG.

Research and Tools." Annual Meeting of the AAG. Boston, MA.

Urban Inquiry." Annual Meeting of the AAG. Boston, MA.

2017

2017

2017

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) Organizer. "Toward a Geographical Software Studies". Annual meeting of the AAG. San 2016 Francisco, CA. Organizer with Nick Lally. (4 sessions) 2015 Consultant. "Academic Partnerships with HOT". Humanitarian OpenStreetMap Team Summit. Organizer: Robert Soden. Organizer. "Critical Data, Critical Technology: in Theory." Annual meeting of the AAG. 2015 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, Adrianne 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, Adrianne 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

University of Calgary

2017 Advanced Research and Applications in GIS (graduate course)

2017 Urban and Environmental GIS

Temple University

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

The Making of World Regions (Online course)

2012 Urban GIS

Invited Lectures

2016 Guest lecture in GEOG 340: Qualitative Methods in Human-Environment Research (UofC)

2016 2 guest lectures in GEOG 463: Cities, Poverty, and Development (UofC)

2016 Guest lecture in ENST 2097: Research Design in Environmental Studies (TU)

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)

Guest lecture in GEOG 469/569: GIS Workshop (UW)

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

2017-present Dare Adeyemi, Master of Arts, University of Calgary. Supervisor. Expected start date September

2017.

2016-present Francisco Uribe, PhD, University of Calgary. External committee member.

2016-present Karina Oliveira, Master of Science, University of Calgary. Co-supervisor.

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

2015-2016 Jing-Huei Huang, Community service GIS project. "The Practice Use of Geographic Information System (GIS): East Falls Village – Identify Existing and Target Members". Supervisor.

Professional Service

2017-present	International Advisory Board, ACME: International Journal for Critical Geographies
2017-present	Master's in GIS (MGIS) Renewal Committee
2017	Judge for the Department of Geography's 54th Annual Conference
2017	College of Reviewers applicant - reviewer
2016	Program Committee for Spatial Knowledge and Information - Canada 2017
2015-2016	Professional Science Master's in GIS Steering Committee
2013-2014	Secretary and Treasurer, Geographic Information Systems & Science Specialty Group of the AAG
2012-2013	Student Representative, Geographic Information Systems & Science Specialty Group of the AAG
2012-2013	Leadership Collective Member, Socialist & Critical Geography Specialty Group of the AAG
2012-2013	Research Assistant, Commons Lab, Woodrow Wilson International Center for Scholars
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

ACME: An International E-Journal for Critical Geographies

Big Data & Society

Canadian Geographer

Cartographica

Geoforum

GeoJournal (x3)

Geography Compass (x3)

International Journal of Applied Geospatial Research

National Science Foundation (NSF) Standard Grant Application

New Media & Society

Philosophical Transactions

Plenum: A Journal of Geography (x2)

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." <i>Simpson Center for the Humanities Center News.</i> 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." <i>Diverse Issues in Higher Education</i> . http://bit.ly/Jx7d2h.

Signed and dated:

Ryan Burns, PhD

April 25, 2017