

## LUKE ROBERT BERGMANN

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### PROFESSIONAL POSITIONS

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- Present – 2012 *University of Washington*  
Assistant Professor of Geography.
- Present – 2012 *University of Washington*  
Jackson School of International Studies, China Studies Program, Full Member.
- Present – 2014 *University of Washington*  
Center for Studies in Demography and Ecology, Faculty Affiliate.
- 2012 – 2011 *University of Washington*  
Acting Assistant Professor of Geography.

### EDUCATION

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- 2012 – 2006 *University of Minnesota – Twin Cities*  
Ph.D. in Geography.  
Regents Professor Eric S. Sheppard, Advisor.  
Dissertation Title:  
*Capital, Carbon, Context, and Concepts: Geographies under Globalization*
- 2006 – 2003 *University of Minnesota – Twin Cities*  
M.A. in Geography.  
Professor Eric S. Sheppard, Advisor.  
Master's Paper Titles:  
- "Spatiality and the Search for Chinese Modernity"  
- "Simulating the Capitalist Space Economy:  
Statistical Dynamic Equilibrium in a Regional Agent-Based Model"  
- "Theory by Modeling and Simulation:  
Moving Beyond Metaphorical Complexity"
- 2004 *Xi'an International Studies University, Xi'an, Shaanxi Province, China*  
Intensive summer studies in Chinese.
- 2003 *Beijing Language and Culture University, Beijing, China*  
Intensive semester of study in Chinese.
- 2002 – 1998 *Duke University, Durham, North Carolina*  
B.S. in Physics, Minor in English.  
Ranked 6<sup>th</sup> of 1298 in graduating class.  
Phi Beta Kappa.
- 2000 *University of Oxford, New College, Oxford, United Kingdom*  
Summer study in English Literature as Lord Rothmere Scholar.

## SELECTED GRANTS AND AWARDS

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- 2015 University of Washington, Simpson Center for the Humanities, Summer Digital Humanities Commons Research Fellowship, “Toward Speculative Cartographies.”
- 2015 – 2014 University of Washington, Simpson Center for the Humanities, Research Fellow and Member of the Society of Scholars. Project entitled: “Speculative Cartographies: GIS after encounters with the environmental humanities.”
- 2014 – 2013 Fred Hutchinson Cancer Research Center (FHCRC), Basic Sciences Division, Brent Lab, funding for co-organizing FHCRC and Simpson Center “Biological Futures in a Globalized World Initiative.”
- 2012 University of Washington, Initiative on Biological Futures in a Globalized World, Research Consortium Fellow.
- 2011 – 2010 University of Minnesota Graduate School Dissertation Fellowship.
- 2011 – 2010 University of Minnesota Consortium on Law and Values in Health, Environment & the Life Sciences, funded proposal: “Competing Values in Carbon Accounting.”
- 2011 – 2010 University of Minnesota Graduate School Interdisciplinary Doctoral Fellowship. [declined]
- 2009 – 2004 United States National Science Foundation, Graduate Research Fellowship.
- 2007 Association of American Geographers, Economic Geography Specialty Group, Travel Award.
- 2007 University of Minnesota, China Center, Red Pockets Scholarship.
- 2007 University of Minnesota, China Center, Hsiao Scholarship.
- 2006 University of Minnesota, Department of Geography, Summer Research Support Award.
- 2005 – 2004 United States Department of Education, Foreign Language Area Studies (FLAS) Fellowship in Mandarin Chinese.
- 2004 University of Minnesota, Office of International Programs, Judd Fellowship. [declined monetary support]
- 2004 – 2003 University of Minnesota Graduate School Fellowship.
- 2002 – 1998 Duke University, Angier B. Duke Scholar. Full-Tuition Merit Scholarship. One of fifteen selected.
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## SELECTED GRANTS AND AWARDS (CONTINUED)

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- 2002 – 2001 Barry M. Goldwater Scholarship, recipient of funding and national recognition for ‘outstanding potential’ in science.
- 2001 United States National Science Foundation, REU at the Santa Fe Institute.  
Research into Complex Spatial Coevolutionary Dynamics.

## RESEARCH PUBLICATIONS

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- Bergmann, L. and M. Holmberg (in preparation.) “Planetary Capitalism and the Land: The Deep Footprints of Services and Factories in World Fields and Forests.”
- Wallace R.G., L. Bergmann, M. Holmberg, S. Nasland, L. Hogerwerf, M. Gilbert, X. Xiao, T. Robinson, and V. Martin (in preparation.) “A social phylogeography shows influenza A (H7N9) originated migrating over agro-economic gradients in two directions.”
- Bergmann, L. (in review.) “Toward Speculative Data: A ‘Geographic Information’ for situated knowledges, vibrant matter, and relational spaces?”
- Wallace, R., L. Bergmann, L. Hogerwerf, R. Kock, and R.G. Wallace (in review.) “Ebola in the hog sector: Modeling pandemic emergence in commodity livestock.”
- Wallace, R.G., L. Bergmann, R. Kock, M. Gilbert, L. Hogerwerf, R. Wallace, and M. Holmberg (2014) “The dawn of Structural One Health: A new science tracking disease emergence along circuits of capital.” *Social Science and Medicine*. DOI: 10.1016/j.socscimed.2014.09.047
- Bergmann, L. (2013). “Bound by Chains of Carbon: Ecological-Economic Geographies of Globalization.” *Annals of the Association of American Geographers*. 103(6): 1348-1370. DOI: 10.1080/00045608.2013.779547
- Bergmann, L. (2012). “A Coevolutionary Approach to the Capitalist Space Economy.” *Environment and Planning A*. 44(3): 518-537.
- Hogerwerf, L., R.G. Wallace, D. Ottaviani, J. Slingenbergh, D. Prosser, L. Bergmann, and M. Gilbert (2010). “Persistence of highly pathogenic influenza A (H5N1) defined by agro-ecological niche.” *Ecohealth*. 7 (2): 213-225. DOI: 10.1007/s10393-010-0324-z
- Wallace, R., L. Bergmann, L. Hogerwerf, and M. Gilbert (2010). “Are Influenzas in Southern China Byproducts of the Region’s Globalising Historical Present?” In Giles-Vernick, T., S. Craddock, and J. Gunn, eds., *Influenza and Public Health: Learning from Past Pandemics*. Earthscan: London, UK. 101-144.
- Wallace, R.G., L.R. Bergmann, N. Ebner, D. Bonsal, L. Hogerwerf, M. Gilbert, M. Joachimiak, J. Otte, and J. Slingenbergh (2010). “Statistically modeling influenza spread and evolution across an agro-ecological landscape.” Final report to the Food and Agriculture Organization of the United Nations, Rome, Italy. 116 pp.

## RESEARCH PUBLICATIONS (CONTINUED)

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- Bergmann, L., E. Sheppard, and P. Plummer (2009). "Capitalism beyond harmonious equilibrium: Mathematics as if human agency mattered." *Environment and Planning A*. 41(2): 265-283.
- Jordan, N., R. Bawden, and L. Bergmann (2008). "Pedagogy for Addressing the Worldview Challenge in Sustainable Development of Agriculture." *Journal of Natural Resources and Life Sciences Education*. 37: 92-99.
- Jacobson, D., M. Arif, L. Bergmann, and A. Ioffe (1999). "Development of the neutron phase contrast imaging technique and its application in material science research." *Proceedings of SPIE - The International Society for Optical Engineering*. 3767: 328-335.

## PRESENTATIONS

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- BERGMANN, L (2015) "Value in motion; earth and sky in flux." Invited presentation in the *Tod Spieker Geographies of Carbon Colloquium Series*, February 9, 2015, Department of Geography, University of California, Los Angeles.
- BERGMANN, L (2015) "Examining the consequences of borders: What if our quantifications of carbon footprints are sensitive to historically-contingent understandings of economy and environment?" Invited presentation at the *Interdisciplinary Perspectives on the Global Carbon Supply Chain* Workshop, January 16-17, 2015, University of British Columbia, Vancouver.
- BERGMANN, L (2014) "The politics of global calculation: Carbon, Ecology, Risk, and Political Economy." Invited presentation at the *Climate Change, Global Health, and the Inequalities of Risk: Crossing Borders and Disciplines to Re-map Vulnerability and Resilience* Symposium, April 17-18, University of Washington, Seattle.
- BERGMANN, L (2013) "[Re-]Making maps for humanists and interpretative social scientists." Invited to be the Spring 2013 speaker in the series: *Praxis: Doing Scholarship Digitally*, 14 May, at the University of Washington Libraries, Seattle.
- BERGMANN, L (2013) "Globalizing Concepts: Ecology, Political Economy, and China." Accepted for presentation at *China and the Restructuring of International Political Economy*, 14-15 April, University of Oregon, Eugene.
- BERGMANN, L (2013) "Beyond the Anthropocene: Toward modest mathematical narratives for more-than-human global communities." Paper accepted for session: "Re-evaluating the Anthropocene, Resituating "Anthropos,"" *Annual Meeting of the Association of American Geographers*, Los Angeles.
- BERGMANN, L (2013) "Bound by Chains of Carbon: Ecological-Economic Geographies of Globalization." Invited presentation at the *Workshop on Critical Climate Change Scholarship*, 5-7 April, University of Minnesota, Minneapolis.

## PRESENTATIONS (CONTINUED)

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- BERGMANN, L (2013) "Beyond the Anthropocene: Toward modest mathematical narratives for more-than-human global communities." Invited colloquium at the *University of British Columbia Department of Geography*, 22 January 2013, Vancouver, BC.
- BERGMANN, L (2012) "Ontic turbulence: fields in factories, South in North, and forests in finance." *Decolonizing Cascadia? Rethinking Critical Geographies 7<sup>th</sup> Annual Regional Mini-Conference*, Vancouver, BC.
- BERGMANN, L (2012) "Beyond imagining local causes/solutions to a global problem: mapping carbon footprints of global capitalism." *Annual Meeting of the Association of American Geographers*, New York.
- BERGMANN, L (2011) "Carbon over the horizon: global thinking about having acted non-locally." *Cascadia Critical Geographies Mini-Conference*, Seattle
- BERGMANN, L. and E. SHEPPARD (2011). "Peregrinations of value as capitalism globalizes: Theory and measure." *Annual Meeting of the Association of American Geographers*, Seattle.
- BERGMANN, L. (2010) "Rethinking Carbon Emissions in an Era of Economic Globalization." Invited lecture at *Macalester College*, St. Paul, MN. November 23, 2010.
- BERGMANN, L. (2010) "Understanding Global CO2 Emissions In Terms of Global Trade / 全球贸易视角下的碳排放研究." Eleventh Invited Lecture within the International Scholars Lecture Series, *Chinese Academy of Sciences, Institute of Geographic Sciences and Natural Resources Research, Key Laboratory of Regional Sustainable Development Modeling*. Beijing, China. 中国科学院地理科学与资源研究所, 区域可持续发展分析与模拟重点实验室, 国际学者系列讲座之十一. September 17, 2010.
- BERGMANN, L. (2010) "Global capitalism, carbon emissions, and China: Re-narrating the relations." *International Conference on China and the Future of Human Geography*. Sun Yat-sen University, Guangzhou, China.
- WALLACE, R.G. L. Bergmann, L. Hoyerwerf, M. Gilbert (2010). "Does Southern China's historical present shape influenza's evolution?" *Second International Workshop on Community-based Data Synthesis, Analysis and Modeling of Highly Pathogenic Avian Influenza H5N1 in Asia*. Beijing, China.
- BERGMANN, L. (2010) "Bound by chains of carbon or capital? Toward a geographical political economy of socio-ecological crisis." *A Brief Environmental History of Neoliberalism*. Lund University, Sweden.
- BERGMANN, L. (2010) "Bound by Chains of Carbon: Remapping territorial connections." Paper accepted for session: "Environmental Science, policy and politics: exploring the links," *Annual Meeting of the Association of American Geographers*. Washington DC.
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## PRESENTATIONS (CONTINUED)

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- BERGMANN, L. (2010) "Uneven Development and Global Accounting for Carbon Emissions." *Merging Theory, Policy and the Practice of Development: the Gary N. Gaile Development Geography Pre-Conference at the Annual Meeting of the Association of American Geographers*, Washington DC.
- Hogerwerf L., K. Hall, B. McKay, N. Ebner, L. Bergmann, M. Gilbert, J. Slingenbergh and R.G. WALLACE (2009). "Agro-ecological resilience and the evolution of highly pathogenic influenza A (H5N1)". *Food and Agriculture Organization of the United Nations*, Rome, Italy.
- Hogerwerf L., K. Hall, B. McKay, N. Ebner, L. Bergmann, M. Gilbert, J. Slingenbergh and R.G. WALLACE (2009). "Agro-ecological resilience and the evolution of highly pathogenic influenza A (H5N1)." *European Food Safety Authority*, Parma, Italy.
- Hogerwerf L., K. Hall, B. McKay, N. Ebner, L. Bergmann, M. Gilbert, J. Slingenbergh and R.G. WALLACE (2009). "Agro-ecological resilience and the evolution of highly pathogenic influenza." *Institute for Global Studies, University of Minnesota*, Minneapolis.
- Bonsal D., M. Snow, L. Hogerwerf, B. McKay, L. Bergmann, N. Ebner, M. Gilbert, J. Slingenbergh and R.G. WALLACE (2009). Are specific amino acid replacements in HPAI H5N1 associated with shifts in agro-ecological niche? *The 1st International Workshop on Community-based Data Synthesis, Analysis and Modeling of Highly Pathogenic Avian Influenza H5N1 in Asia*. Bangkok.
- BERGMANN, L. (2008). "Structured by the Pursuit of Profit: A Co-evolutionary inter-sectoral model with stochastic technical change." Paper accepted for presentation at the *Probabilistic Political Economy* Conference, Kingston University, UK.
- BERGMANN, L., E. Sheppard, and P. Plummer. (2007). "Capitalism beyond harmonious equilibrium: mathematics as if human agency mattered." Presentation given at the *Second Global Conference on Economic Geography*, Beijing, China.
- SHEPPARD, E., P. Plummer, AND L. BERGMANN (2007). "Mathematical dialectics: Exploring the spatial dynamics of capitalism." Presentation accepted in session: "Critical Quantitative Geographies: Beyond the Critical / Analytical Binarism IV," *Annual Meeting of the Association of American Geographers*, San Francisco.
- BERGMANN, L. (2006) "Theory by Modeling and Simulation: Moving Beyond 'Qualitative vs. Quantitative.'" Presentation given at the *Fourth Meeting of East Asian Regional Conferences in Alternative Geography*, National Taiwan University, Taipei.
- BERGMANN, L. (2005). "From Social Relations to a Capitalist Space Economy: Simulation Beyond the Rational Actor." Presentation accepted into the organized session "Perspectives on Geographic Complexity II." *Annual Meeting of the Association of American Geographers*, Denver.

## PANELS AND DISCUSSIONS

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- 2014 Invited discussant in “Times of Global Environmental Change” panel at *Climate Change, Global Health, and the Inequalities of Risk: Crossing Borders and Disciplines to Re-map Vulnerability and Resilience*, University of Washington, April 17-18.
- 2014 Invited panelist in “Visioning GIScience Education” at the *Annual Meeting of the Association of American Geographers*, Tampa.
- 2013 Invited panelist in “Re-evaluating the Anthropocene, Resituating ‘Anthropos’ 5: Roundtable Discussion,” at the *Annual Meeting of the Association of American Geographers*, Los Angeles.
- 2011 Invited panelist for “Emerging Issues in Biological Futures II: A Panel Discussion on Global Health,” with C. Lowe, M. Stalcup, and moderator M. Sparke on 7 Nov at the *Simpson Center for the Humanities*, University of Washington, Seattle.
- 2011 Invited panelist in “Geographies of value, labor, and social reproduction” at the *Annual Meeting of the Association of American Geographers*, Seattle.

## CONFERENCES, WORKSHOPS, PANELS, AND SPEAKING SERIES ORGANIZED

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- 2014 “*Revisiting Critical GIS*”: A lead organizer with J. Thatcher and D. O’Sullivan on a conference held at the Friday Harbor Laboratories, October 17-20, 2014.
- 2014 – 2013 *University of Washington, Simpson Center for the Humanities, Initiative on Biological Futures in a Globalized World*, “Biosecurities, Reterritorializations, and Para-Human Populations” Series. Co-Organizer with C. Lowe and G. Bennett. A series of colloquia and a broader collaborative ‘concept studio.’
- 2014 *Annual Meeting of the Association of American Geographers*, Co-organizer of three sessions around “Digital Geographies, Geographies of Digitalia” (with J. J. Giesecking.) Sub-themes: “Interventions into Digital Thought and Practice,” “The Digital in Place,” and “Discursive Productions of Digital Space.”
- 2014 *University of Washington, Department of Geography*. In anticipation of V. Lawson’s response to D. Massey’s lecture on the Kilburn Manifesto at the 2014 Annual Meeting of the Association of American Geographers, I co-organized an online collective reading of this important work of public scholarship using a collaborative annotation package and an in-person discussion in which approximately 25 U.W. faculty, graduate students, prospective graduate students, and honors undergraduates participated.

## WORKSHOPS ATTENDED AS INVITED PARTICIPANT

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- 2015 *Interdisciplinary Perspectives on the Global Carbon Supply Chain* Workshop, January 16-17, 2015, University of British Columbia, Vancouver.
- 2014 *Climate Change, Global Health, and the Inequalities of Risk: Crossing Borders and Disciplines to Re-map Vulnerability and Resilience*, University of Washington, April 17-18.
- 2013 *Workshop on Critical Climate Change Scholarship*, University of Minnesota, April 5-7.
- 2012 *Synthetic Biology in Question: Assessing the role of human and social scientists.* Initiative on Biological Futures in a Globalized World and Simpson Center for the Humanities, University of Washington.

## RESEARCH, PEDAGOGICAL, AND PROFESSIONAL PREPARATION

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- 2014 *University of Washington, Center for Teaching and Learning*, Active Learning Classroom Learning Community, Member.
- 2012 *Geography Faculty Development Alliance*, Workshop attendee/participant.
- 2011 *University of Washington*, Faculty Fellows Program.
- 2011 – 2010 *Chinese Academy of Sciences, Institute of Geographic Sciences and Natural Resources Research.* Research visitor from May 2010 to April 2011.
- 2010 *Training workshop on progress in human geography.* Sun Yat-sen University, Guangzhou.
- 2010 *Summer Institute in Economic Geography.* University of British Columbia, Vancouver. Selected as participant.
- 2010 – 2009 *University of Minnesota – Twin Cities.* Research Assistant to Regents Professor Eric Sheppard. Geographical Approaches to International Trade.
- 2009 *University of Hong Kong, Department of Geography.* Research visitor from March to July of 2009.
- 2009 *University of California – Los Angeles, Department of Geography.* Research visitor from February to March of 2009.
- 2006 – 2005 *University of Minnesota – Twin Cities.* Research Assistant to E. Sheppard: Disequilibrium Economic Geographies.



## PROFESSIONAL SERVICE

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- 2014 – 2013 *Alliance for Networking Visual Culture*, Research, Authoring and Publication Working Group.
- 2014 – 2013 *University of Washington, Department of Geography*, Undergraduate Program Committee.
- 2014 – 2013 *University of Washington, Department of Geography*, Integrated Capstone Assessment Project Group.
- 2014 – 2013 *Progress in Human Geography*, Reviewer.
- 2014 – 2013 *Global Environmental Change*, Reviewer.
- 2014 & 2012 *Annals of the Association of American Geographers*, Reviewer.
- 2014 *University of Washington, Department of Geography*, Administrator Hiring Committee.
- 2014 *Journal of Cleaner Production*, Reviewer.
- 2013 *National Science Foundation, Geography and Spatial Science Program*, Proposal Reviewer.
- 2013 *Proceedings of the National Academy of Sciences*, Reviewer.
- 2013 *Ecological Economics*, Reviewer.
- 2013 *Geoforum*, Reviewer.
- 2013 – 2012 *University of Washington, College of Liberal Arts, Division of Social Sciences*.  
Social Sciences Online Degree Implementation Group.
- 2013 – 2012 *University of Washington, Department of Geography*,  
Ad-hoc committee on online/digital pedagogy.
- 2013 – 2012 *University of Washington, Department of Geography*, Executive Committee.
- 2013 – 2012 *University of Washington, Department of Geography*, Technology Committee.
- 2013 & 2011 *Economic Geography*, Reviewer.
- 2012 *Applied Geography*, Reviewer.
- 2012 *University of Washington Royalty Research Fund*, Reviewer.
- 2012 – 2011 *University of Washington, Department of Geography*, Graduate Committee.
- 2011 – 2010 *Environment & Planning A*, Reviewer.
- 2010 – 2009 *Association of American Geographers, Economic Geography Specialty Group*.  
Elected as the Student Representative.

## ART COMMENTARIES

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Bergmann, L. (2013). "Losing and finding yourself in a map." *Faculty Viewpoint* on Emma Kay's (1999) *The World From Memory*, Henry Art Gallery, Seattle, WA.

## TRANSLATIONS

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Zhang Hui (2009). *A Scene Once Familiar* (曾经熟悉的风景). Culture and Art Publishing House (文化艺术出版社): Beijing, China. Co-translated essays with Zhang JL.

## STUDENT SUPERVISION

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### *Ph.D. Students*

- Present – 2014 *Christopher Cox*, Ph.D. Advisor.
- Present – 2014 *Emma Slager*, Ph.D. Committee Member.
- Present – 2013 *Jason C. Young*, Ph.D. Committee Member.
- Present – 2012 *Josef Eckert*, Ph.D. Committee Member. HASTAC Fellow Mentor.
- 2014 – 2013 *Ryan Burns*, Humanities, Arts, Science and Technology Advanced Collaboratory (HASTAC) Fellow Mentor.

### *M.A. Students*

- Present – 2014 *Phillip A. Neel*, M.A. Advisor.
- Present – 2014 *Meredith Krueger*, M.A. Committee Member.
- 2013 *Lindsay Butt*, M.A. Committee Member.
- 2013 – 2012 *Nicholas Lott-Havey*, M.A. Advisor. *Modern Other and non-Modern Self: Discourses, Silences, and Ruptures of Chinese Modernity Deployed in Blogs Regarding Chinese Students Seeking Education Abroad.*
- 2013 – 2012 *Marshall C. Agnew*, M.A. Advisor.

### *Undergraduate Students*

- 2014 *Richard McGovern*, 2014 Mary Gates Research Scholar, “Saving our Buses: Optimizing the Equity and Efficiency of our Public Transportation System,” Faculty Co-Mentor.
- 2014 – 2011 *Mollie Holmberg*, 2012 Mary Gates Research Scholar, “Modeling the Human Ecosystem,” Faculty mentor and research article co-author. M. Holmberg presented at the 2014 *Annual Meeting of the Association of American Geographers*, at the *National Collegiate Research Conference 2014* at Harvard, and at the Council on Undergraduate Research’s *Posters on the Hill* for Congress in Washington, D.C.
- 2013 – 2012 *Zakery Lee*, 2013 Mary Gates Research Scholar, “Analyzing Public Transit and Socioeconomic Equality in Seattle, WA,” Faculty Co-Mentor.

## COURSE INSTRUCTION

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2014 Spring	Geog 458	<i>Advanced Digital Geographies</i>
2014 Winter	Geog 270	<i>Geography of International Development and Environmental Change</i>
2014 Winter	Geog 571	<i>Critical Ecologies of Relational Becoming: Geographies after Nature and Society.</i>
2013 Autumn	Geog 360/560	<i>Principles of GIS Mapping.</i>
2013 Summer	Hum 498A&B	<i>Outbreak! Reimagining Death and Life, Disease and Health: The 2013 Summer Institute in the Arts &amp; Humanities.</i> (A summer-long, 12-credit, intensive research seminar. Admissions were competitive and provided scholarships. Selected to co-teach with three colleagues: M. Sparke, C. Lowe, and M.E. García.)
2013 Spring	Geog 495	<i>Digital Geographies.</i>
2013 Winter	Geog 521	<i>Hybrid Humanities: Critical, Digital, Geographical.</i>
2012 Autumn	Geog 360/560	<i>Principles of GIS Mapping.</i>
2012 Spring	Geog 360/560	<i>Principles of GIS Mapping.</i>
2012 Spring	Geog 571	<i>Critical Ecologies of Relational Becoming: Geographies after Nature and Society.</i>
2012 Winter	Geog 270	<i>Geography of International Development and Environmental Change.</i>

Last updated on Wednesday, March 4, 2015.