

Russell C. Hedberg II

Department of Geography & Earth Science
Shippensburg University
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EDUCATION

Ph.D., Geography, The Pennsylvania State University, University Park, PA, 2018

Adviser: Karl Zimmerer

Dissertation title: *Local Food Systems, Phosphorus, and Resilience in a Regional Farmers' Market Network, New York City, USA*

M.S., Geography, The Pennsylvania State University, University Park, PA, 2013

Adviser: Karl Zimmerer

Thesis title: *Reassembling the Landscape: a Holistic Study of Polylepis Forest Cover Change in Colina, Tunari National Park, Bolivia*

B.A., History, University of Michigan, Ann Arbor, MI, 2002

ACADEMIC APPOINTMENTS

2018-present Assistant Professor, Department of Geography-Earth Science, Shippensburg University

OTHER APPOINTMENTS

2018-present Affiliate Scientist, Center for Land Use and Sustainability, Shippensburg University

PUBLICATIONS

Peer-Reviewed Articles:

Hedberg, Russell C. 2021. An instrumental-reflexive approach to assessing and building food system resilience. *Geography Compass*, 15(7): 1-15.

Hedberg, Russell C. and Karl S. Zimmerer. 2020. What's the market got to do with it? Social-ecological embeddedness and environmental practices in a local food system initiative. *Geoforum* 110(2020): 35-45.

Hedberg, Russell C. 2020. Coming out of the foodshed: Phosphorus cycles and the many scales of local food. *Annals of the American Association of Geographers*, 110(3): 684-704.

Hedberg, Russell C., Arielle Hesse, Doug Baldwin, Jase Bernhardt, David Retchless, Jamie Shinn. 2017. Preparing geographers for interdisciplinary research: graduate training at the interface of the natural and social sciences. *The Professional Geographer* 69(1): 107-116.

Hedberg, Russell C. 2016. The ecology of alternative food landscapes: a framework for assessing the ecology of alternative food networks and its implications for sustainability. *Landscape Research* 41(7): 795-807.

Articles in Preparation:

Hedberg, Russell C. Agrobiogeochemical resilience: Phosphorus, soil health, and sustainability among local food oriented farmers in the New York City region, USA. *Renewable Agriculture and Food Systems*.

Hedberg, Russell C. Venture capital, techno-fixes, and the crisis of animal agriculture. *Agroecology and Sustainable Food Systems*

Hedberg, Russell C. and Charles White. Relationships between soil carbon, fertility management and biological phosphorus cycling on local food-oriented farms in the Northeastern U.S.: Evidence of possible phosphorus priming effect. *Agricultural and Environmental Letters*.

Hedberg, Russell C. Land-use change, soil legacies, and possible phosphorus futures in New York State. *Renewable Agriculture and Food Systems*.

Book Reviews

Hedberg II, Russell C. "Margaret Gray: Labor and the locavore: the making of a comprehensive food ethic." *Agriculture and Human Values* 32, no. 1 (2015): 159-160.

GRANTS AND FELLOWSHIPS

- Shippensburg University Council of Trustees Faculty Development Grant: "Alternative Protein and Sustainable Food Futures: Big Data Approaches to Discourse Analysis." (2021), \$1000.
- NSF-Undergraduate Biology Education-Research Collaboration Network: "Training Undergraduate Biologists through Urban Agriculture (TUBA)" (2021-2026). Steering Committee Member. \$499,972.
- Shippensburg University Faculty Professional Development Council Research Grant: "Social-Ecological Dynamics of Mushroom Foraging in Pennsylvania" (2020-2022). PI, \$10,580.
- NSF Graduate Research Fellowship (2012-2017). Approximately \$125,000.

- NSF Geography and Spatial Sciences Program Dissertation Research Improvement Grant: “Social and Biogeophysical Factors Contributing to Soil Fertility Sustainability in Local and Regional Food Systems” (2016-2017). Co-PI. \$10,362.
 - USDA Northeast Sustainable Agriculture, Research, and Education Program (SARE) Graduate Research Grant: “Local and Regional Food Systems, Soil Phosphorus, and Resilience in a Regional Farmers Market Network” (2015-2017). Co-PI. \$14,976.
 - American Association of Geographers Dissertation Research Grant (2015), \$1000.
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HONORS AND AWARDS

- Geography & Earth Sciences Benhart Research Award, Shippensburg University (2020)
 - Ecological Society of America Biogeosciences Section Student Travel Award (2017)
 - Penn State Center for Landscape Dynamics Graduate Research Award (2015)
 - E. Willard Miller Award, Best Master’s Paper in Geography (2013)
 - Penn State Geography Department: Erickson Fund in Geography Academic Enrichment Award (2012)
 - Pennsylvania State University School of Graduate study: Fund for Excellence in Graduate Recruiting Assistantship Award (2011)
 - Penn State College of Earth and Mineral Sciences: Anne C. Wilson Graduate Assistantship Award (2011)
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TEACHING EXPERIENCE

Instructor:

- Sustainable Food Systems from the Soil Up (GEO 406/506), Shippensburg University
- Sustainability Capstone (GEO 427), Shippensburg University
- Introduction to Environmental Sustainability (ESS 108), Shippensburg University
- Introduction to Geographic Information Systems (GEO 202), Shippensburg University
- Introduction to Physical Geography (GEOG 010), Penn State.
- Geographic Perspectives on Sustainability and Human-Environment Systems (GEOG 30Web), Penn State
- Human Use of Environment (GEOG 430Web), Penn State
- Global Parks and Sustainability (GEOG 001Web), Penn State

Teaching Assistant:

- Thinking Geographically (GEOG 301), Penn State

- Digital Image Analysis (GEOG 362), Penn State
 - Geographic Perspectives on Sustainability and Human-Environment Systems (GEOG 030), Penn State
 - Introduction to Human Geography (GEOG 020), Penn State
 - Introduction to Physical Geography (GEOG 010), Penn State
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INVITED TALKS AND PRESENTATIONS

- 2018 “Building Sustainable Systems at Shippensburg University.” Presentation to the Geography-Earth Science Advisory Council, October 11, 2018. Shippensburg University.
- 2017 Professional Development Workshop: Gaining Technical Skills. Invited Panelist. Department of Geography, The Pennsylvania State University, October 26, 2017, University Park, PA.
- 2017 “What’s the Market got to do with it? Social-Ecological Embeddedness and Environmental Decision-Making in a Northeastern Farmers’ Market Network.” Guest lecture for Geography 108: Introduction to Human Geography, West Virginia University, March 30, 2017.
- 2015 “Archive Raid! Long-term Forest Cover Monitoring in the Andean Highlands Using Free Data.” Grad Lightning Talk, Penn State Department of Geography Coffee Hour Seminar Series, November 20, 2015.
- 2015 “Graduate Showcase: perspectives from the recipients of the Center for Landscape Dynamics 2015 Grad Award.” Panel presentation for Penn State Earth and Environmental Systems Institute EarthTalks Seminar Series, September 28, 2015.
- 2015 “Food and Phosphorus in the Northeast.” Panel presentation on the Landscapes and Livelihoods of the Northeast, Nature-Society Workshop, October 2-3, 2015, Cornell University, Ithaca, NY.
- 2015 Guest lecture on urban-rural connections in local food systems, Geographies of Sustainability and Food (GEOG 297H), The Pennsylvania State University, March 24,
- 2014 Guest lecture on Assessing forest cover change using satellite remote sensing, Digital Image Analysis (GEOG 362), The Pennsylvania State University, October 22, 2014.
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CONFERENCE AND WORKSHOP PRESENTATIONS

- 2021 "The Bitter Twitter Battle: Regenerative Agriculture, Techno-Fixes, and the Uncertain Future of Animal Agriculture." Paper presented at Just Food (Annual Meeting of the Agriculture, Food, and Human Values Society), June 9-15, *meeting held virtually due to COVID-19*.
- 2021 "Venture capital, techno-fixes, and the crisis of animal agriculture." Paper presented at the Annual Meeting of the American Association of Geographers, April 7-11, *meeting held virtually due to COVID-19*.
- 2020 "An active learning approach for critical engagement with food system localization." Paper presented at Annual Meeting of the American Association of Geographers, April 6-10, *meeting held virtually due to COVID-19*.
- 2019 "Capturing phosphorus in soil health assessments: assessing the potential of carbon fractions and enzyme assays as indicators of organic phosphorus provision." With Charles White (Penn State). Paper presented at the Annual Meeting of the Ecological Society of America, August 11-16, 2019, Louisville, KY.
- 2019 "Land-use legacies, capitalist contamination, and possible phosphorus futures in New York State." Paper presented at the Annual Meeting of the American Association of Geographers, April 3-7, 2019, Washington, D.C.
- 2018 "Querying social-ecological embeddedness: Farmers' market social-ecological relations and environmental farming practices in the New York City region." Paper presented at the Annual Meeting of the American Association of Geographers, April 10-14, 2018, New Orleans, LA.
- 2017 Panel on Agroecology and Environmental Futures, contributing panelist. Nature-Society Geography Workshop, Clark University Graduate School of Geography, September 15-16, 2017, Worcester, MA.
- 2017 "A soil health approach to phosphorus cycling and agrobiogeochemical resilience in a Mid-Atlantic local food system initiative." Paper presented at the Ecological Society of America Annual Meeting, August 6-11, 2017, Portland, OR.
- 2017 "Towards a Framework for Agrobiogeochemical Resilience: Phosphorus, Soil Health, and Sustainability in a Local/Regional Food System Initiative." Paper presented at the Annual Meeting of the American Association of Geographers, April 5-9, 2017, Boston, MA.
- 2016 "Mixing Methods in Political Ecology: Combining Qualitative Data with Biophysical Science." Paper presented at the Annual Meeting of the American Association of Geographers, March 29-April 2, San Francisco, CA.

- 2016 "Interdisciplinarity in Graduate training in New Institutional Landscapes." Panel presentation at the Annual Meeting of the American Association of Geographers, March 29-April 2, San Francisco, CA.
- 2015 "Uncovering the More-Than-Foodshed: Scale Questions and Sustainability in Local and Regional Food Systems." Paper presented at the Annual Meeting of the Agriculture, food, and Human Values Society, June 24-28, 2015, Pittsburgh, PA.
- 2015 "Coming out of the Foodshed: Elemental Flows and the Challenges of Placing Local Food Systems." Paper presented at the annual meeting of the Association of American Geographers, April 21-25, 2015, Chicago, IL
- 2014 "New York City Greenmarkets and the Remaking of the Agricultural Landscape: Synthesizing Historical Political Ecology and Landscape Ecology." Paper presented at the Annual Meeting of the Association of American Geographers, April 8-13, 2014, Tampa, FL.
- 2014 "Alternative Food Networks as Landscapes of Resistance: Political Ecology, Resiliency, and Change." Paper presented at the Dimensions of Political Ecology Conference, February 27 – March 1, 2014, University of Kentucky, Lexington, KY.
- 2013 "The Forest and the Trees: the Complexities of Human-Forest Relations and Landscape Change in the Bolivian Andes." Paper presented at the Annual Meeting of the Association of American Geographers, April 9-13, Los Angeles, CA.
- 2013 "Landscape Ecology and the Quest for Holistic Natural Resource Management." Paper presented at the Dimensions of Political Ecology Conference, February 28 – March 2, University of Kentucky, Lexington, KY.
- 2012 "The Ecological Melting Pot; or In Search of a Holistic Concept of Landscapes." Paper presented at the No)Boundaries Student Conference, Pennsylvania State University, March 31.

SESSIONS ORGANIZED AT PROFESSIONAL MEETINGS

- 2019 Co-organizer and co-chair (with Erica Smithwick, Penn state), "Nutrient Geographies in the Anthropocene." Paper session for the Annual Meeting of the American Association of Geographers, April 3-7, 2019, Washington, D.C.
- 2018 Co-organizer and co-chair (with Megan Baumann, Penn State), "Farmer decision-making in a changing world: Probing the complexities of farmer action for more sustainable and just food systems." Paper sessions (3) for the Annual Meeting of the American Association of Geographers, April 10-14, 2018, New Orleans, LA.

- 2017 Co-organizer and co-chair (with Dr. Jennifer Blesh, University of Michigan), “Resilience, Food, and Agriculture: Social-Ecological Frameworks for Sustainability and Social Justice.” Paper sessions (3) for the Annual Meeting of the American Association of Geographers, April 5-9, 2017, Boston, MA.
- 2016 Co-organizer (with Arielle Hesse, Jase Bernhardt, Dr. David Retchless Texas A&M, Galveston, and Dr. Jamie Shinn, Texas A&M), “Interdisciplinarity in Graduate Training in New Institutional Landscapes.” Panel session for the annual meeting of the American Association of Geographers, March 29-April 2, 2016, San Francisco, CA.
- 2015 Co-organizer (with Dr. Karl Zimmerer) and chair, “Political Ecology and Social-Ecological Interactions of Food Production and Systems I-VI.” Paper (5) and Panel (1) sessions for the Annual Meeting of the Association of American Geographers, April 21-25, 2015, Chicago, IL.
- 2013 Organizer and chair, “Holistic Landscapes and Complex Ecologies: Moving Beyond Dualisms in Environmental Field Research and Planning.” Paper session for the Annual Meeting of the Association of American Geographers, April 9-13, Los Angeles, CA.

SERVICE ACTIVITIES

- Review Editor, *Frontiers in Sustainable Food Systems* – Urban Agriculture section
- American Association of Geographers Geographies of Food and Agriculture Specialty Group, Web Coordinator, (2020-present)
- Pennsylvania State System of Higher Education Sustainability Development Taskforce (2020-present)
- Chair, University Environmental Steering Committee, Shippensburg University, (2019-2021)
- Co-Chair, Climate Action Planning Committee, Shippensburg University, 2020-2021
- Sustainability Coordinator, Shippensburg University, (2018-2021)
- Faculty Co-Advisor, Green League Student Club (2018-present), Shippensburg University
- Article reviewer for *Agriculture & Human Values*; *Human Ecology*; *Annals of American Association of Geographers*; *Journal of Rural Studies*
- American Association of Geographers Geographies of Food and Agriculture Specialty Group graduate student board member (2016-2018)
- Penn State Department of Geography Undergraduate Research Opportunity Connection program coordinator (2016-2017 academic year)
- American Association of Geographers Cultural & Political Ecology Specialty Group, graduate student board member (2013-2015)

- Penn State Department of Geography Graduate Program Committee, Graduate Student Representative (2012-2014)
 - Penn State Department of Geography Graduate Student Representative (2012-2013 academic year)
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PROFESSIONAL AFFILIATIONS

- Ecological Society of America (ESA)
- American Association of Geographers (AAG)
- Agriculture, Food, and Human Values Society (AFHVS)