Froggi Ramona VanRiper

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| **EDUCATION** | | |
| **Ph.D.** | **Oregon State University,** Environmental Sciences,2021. Humanitarian Engineering track  Corvallis, Oregon, USA Advisors: Lori A. Cramer, Jenna Tilt Dissertation: *The Viability of Container-Based Sanitation as a Tool for Sanitation Coverage in Urban Haiti* | |
| **M.Sc.** | **Linköping University,** Science for Sustainable Development, 2011.  Linköping, Sweden.  Advisor: Tina Neset Thesis: *Outline for a Methodological Framework for Qualifying and Quantifying Phosphorus Inputs to the Life Cycles of Selected Agricultural Products* | |
| **B.S.** | **Principia College,** Biology,2003. Elsah, Illinois, USA |
| **PUBLICATIONS** | | |
| ***Peer-Reviewed***  **VanRiper, F.,** Russel, K.C., Tillias, D., et al. (In preparation). A collaborative methodological model for optimizing survey instrument quality and enumerator investment: toward improving qualitative research in the WASH sector.  **VanRiper, F.,** Russel, K.C., Tillias, D., Laporte, J., Tilt, J. (2022). Container-based sanitation in urban Haiti: how can it improve human rights as a component of citywide inclusive sanitation? *H2Open*, 5:1. https://doi.org/10.2166/h2oj.2022.037  **VanRiper, F.**, Russel, K. C., Cramer, L. A., Tillias, D., Laporte, J., Lloyd, E., & Kramer, S. (2022). Container-Based Sanitation Services and Attrition: An Examination of Drivers and Implications. *Frontiers in Environmental Science*, 9. https://doi.org/10.3389/fenvs.2021.817142  **VanRiper, F.**, Russel, K. C., Tillias, D., Cramer, L., Laporte, J., Lloyd, E., & Kramer, S. (2022). The sanitation arc: An alternative examination of WASH behavior change. *Journal of Water, Sanitation and Hygiene for Development*, washdev2021162. https://doi.org/10.2166/washdev.2021.162  **VanRiper, F.** (2021). *The Viability of Container-Based Sanitation as a Tool for Sanitation Coverage in Urban Haiti* [Doctoral Dissertation, Oregon State University]. OSU Scholars Archive, https://ir.library.oregonstate.edu/concern/graduate\_thesis\_or\_dissertations/7s75dk544.  Neset, T., Cordell, D., Mohr, S., **VanRiper, F.**, & White, S. (2016). Visualizing Alternative Phosphorus Scenarios for Future Food Security. *Frontiers in Nutrition*, 3:47 https://www.frontiersin.org/article/10.3389/fnut.2016.00047 | | |
| ***Other publications*** | | |
| Buell RR, Burns S, Chen Z, Grabinsky L, Hurtado Moreno A, Stanton K, **VanRiper F**, & White L. (2019, February 15). Reworking the History of Social Theory for 21st Century Anthropology: A Syllabus Project. *Footnotes: Multimodal Anticolonial Iconoclastic*. https://footnotesblog.com/2019/02/15/decanonizing-anthropology/  Policy brief: Container-Based Sanitation Subscriber Study demonstrates a rapid, low-cost path to achieving sanitation coverage in urban Haitian communities. Container Based Sanitation Alliance, Nov 2020. (Published in English, French, and Haitian Kreyol)  Andersson L, Alberth J, **VanRiper F**. (2013). Baltadapt Stakeholder Dialogues. Stakeholder Input from the Tourism and Agricultural Sectors to the Baltadapt Strategy and Action Plan on Adaptation to Climate Change in the Baltic Sea Region. Baltadapt report #10. Danish Meteorological Institute, Copenhagen. www.baltadapt.eu.  **VanRiper F**. 2013. Outline for a Methodological Framework for Quantifying and Qualifying Phosphorus Inputs to the Life Cycles of Selected Agricultural Products (Master’s Thesis). Linköping University Electronic Press. | | |
| **TEACHING EXPERIENCE** | | |
| ***Instructor of Record*** | | |
| **Lecturer**, Department of Environmental Studies, Washington University in Saint Louis, St. Louis MO, USA   * EnSt 105 Sustainability in Business. * EnSt 310 Ecological Economics. * EnSt 405 Sustainability Exchange: Community and University Practicums. | | |
| **Graduate teaching assistant**, Oregon State University Integrated Biology Department, Corvallis OR, USA   * BI 213 Socio-Scientific Issues in Biology. In-person class of 40 students in wet lab and field. Genetics, evolution, natural selection, and ecology. Physical skills including botanical field surveying. Lab component of core course for undergraduate students of Integrated Biology. (1qh lab), Spring 2020 * BI 211 Principles of Biology, Diversity of Life. In-person classes of 40 students in wet lab. Origins of life, energy transformations, plant and animal physiology. Covered physical skills including compound and dissecting microscope use, and dissection. Lab component of core course for undergraduate students of Integrated Biology. (1qh lab), Winter 2020 | | |
| **Visiting Instructor,** Principia College, Elsah IL, USA   * SUS 161 Introduction to Sustainability. An introduction to the basic principles (e.g. triple bottom line, ecological footprint, systems thinking) underlying the topic of sustainability. Students explore how sustainability relates to their lives and values, and demonstrate knowledge of sustainable practices and their effects on the economy, the environment, and social equity. (3sh), Spring 2012 (developed full course & curriculum) * BNR 191 Introduction to Ecology. Exploration of fundamental concepts relating to ecosystem structure and function, including the interactions of plant and animal populations within biological communities, and the role of abiotic factors in shaping those populations and communities. Emphasizes basic methods of field research, data analysis, and scientific writing. Designed primarily for students intending to major in biology or environmental studies. (4sh lab), Spring 2012 * BNR 151 Field and Natural History. Studies of local plants and animals in their natural environment and in their relation to humankind. Emphasis on conservation, nature interpretation, and observation and field research skills. (4sh lab), Spring 2012 | | |
| **Biology / Ecology Teacher**, Principia Upper School, St. Louis MO, USA.   * BIOLOGY. Biodiversity, populations and communities, cell structure and function, energy, cell processes, genetics, reproduction, evolution, humans and the biosphere, taxonomy, and ecology. Required full-year course for Juniors. 2006-2010 | | |
| ***Instructional / curriculum design*** | | |
| **Curriculum design assistant**; Oregon State University Environmental Science Graduate Program, Corvallis OR, USA   * HEST 412/512 Multidisciplinary Case Studies in Humanitarian Engineering, Science, and Technology. Introduces students to multidisciplinary methods and perspectives applied to case studies in humanitarian engineering, science, and technology. Applications to real world issues with global implications at the interface of humanity and nature are addressed from a systems perspective using a case study approach. (3qh), Spring 2017 * ENSC 515 Environmental Perspectives and Methods. Remote sensing, modeling over a range of scales in time, space, levels of system organization; and risk analysis. (3qh), Fall 2017 | | |
| ***Teaching assistant*** | | |
| **Graduate teaching assistant**, Oregon State University Geography Department, Corvallis OR, USA.   * GEOG 250 Land Use Planning for Sustainable Communities. Overview of the history and current practices of land use and community planning. Use basic geospatial tools to assess land use patterns and planning processes. (3qh semi-synchronous e-campus), Spring 2020 * GEOG 105 People, Places, and Perspectives in the Global South. Uses geographic concepts to study the places and people of the Global South. Topics covered include definitions of the “Global South;” challenges that face communities and environments in the Global South; how regions in the Global South influence global processes; and perspectives on identity, development, governance, sustainability, and well-being that emerge from various regions in the Global South. (3qh asynchronous e-campus), Spring 2020 * GEOG 452/552 Sustainable site planning. Environmental site assessment is a primary tool for environmental science professionals. Apply environmental science concepts to evaluate features of a specific natural area and conduct a land suitability analysis. Create a conceptual site design and management plan that complies with federal, state, and local regulations and environmental laws. (3qh semi-synchronous e-campus), Winter 2020, Spring 2020 * GEOG 300 Sustainability for the Common Good. Geography of human relationships to the earth's systems with an emphasis on individual impacts and collective efforts to achieve environmental sustainability. (3qh asynchronous e-campus), Fall 2020 | | |
| **RESEARCH EXPERIENCE** | | |
| **Graduate Research Assistant**; Oregon State University Environmental Science Graduate Program, Corvallis OR, USA. 2017-2018   * Interviewed stakeholders involved in emergency sanitation intervention planning; Compiled historical and present data on global emergency sanitation interventions from peer-reviewed sources, grey literature, and agency protocols; Analyzed comparisons among non-sewered sanitation interventions; Prepared documents for submission to the Institutional Review Board; Performed statistical analysis using R software package; Created presentations to convey research results to other scientists and general audiences | | |
| **Research Assistant**; Linköping University Water and Environmental Studies Department, Linköping, Sweden. 2012-2013   * Compiled secondary data from representing international agricultural phosphorus use, and agricultural yields by method (using government reports, peer-reviewed publications, and grey literature); Calculated assumptions for a global model of phosphorus availability; Co-authored and revised manuscript for submission to peer-reviewed journal | | |
| **AWARDS** | | |
| Dissertation completion award, Oregon State University, 2020. ($3,500) | | |
| **PROFESSIONAL PRESENTATIONS** | | |
| **VanRiper F,** Laporte J. (2022, Mar 10-11). *Container-Based Sanitation Subscriber Study demonstrates a rapid, low- cost path to achieving sanitation coverage in urban Haitian communities* [Conference presentation]. Colorado WASH Symposium, Boulder, CO, United States.  **VanRiper F,** Russel KC, Tillias D, Laporte J, Tilt J.(2021, November 29). *Container-Based Sanitation in Haiti: implications of service expansion on labor and exposure of sanitation workers* [Conference presentation]. Sanitation Workers Forum 2021: Linking Research, Policy and Practice. Web-based. | | |
| **VanRiper F.** (2021, Oct 1). *Seafood and sewers: the sanitation crisis and solutions in coastal Haiti* [Invited lecture]. Louisiana State University College of the Coast and Environment Seminar Series, Baton Rouge, LA, United States.  **VanRiper F.**  (2021,Feb 26). *No Place to Poop!: Researching Sustainable Urban Sanitation in Northern Haiti* [Web-based public lecture, by invitation]. Oregon State University Environmental Science Graduate Program Speaker Series.  **VanRiper F,** Laporte J**.** (2020, Mar 4-5). *Attrition Factors in a Container-Based Sanitation program in Haiti: Shaping and Leveraging research in WASH* [Conference workshop]. Colorado WASH Symposium, Boulder, CO, United States. | | |
| **VanRiper F.** (2018, May 18). *Sustainable sanitation innovations in formal displaced-persons settlements – a review of grey literature* [Conference poster presentation]. Environmental Joint Campus Conference, Corvallis, OR, United States.  **VanRiper F.** (2015, Mar 30-31). *Sustainability in the ACM Schools: How Knox does more with less* [Conference workshop]. Smart and Sustainable Campus Conference, Baltimore, MD, United States.  **VanRiper F.** (2012, Feb 29 - Mar 2). *Tracing Embodied Phosphorus flows in Agriculture – a Participatory Process* [Conference presentation].Sustainable Phosphorus Summit, Sydney, Australia.  **VanRiper F.** (2015, Dec 10). *The waste-free move: a lesson from Knox College* [Webinar, by invitation]. College and University Recycling Coalition Webinar Series.  **VanRiper F.** (2012, May 10). *Phosphorus: what is it, and why should I care?* [Public lecture, by invitation]. Town and Country Green Speaker Series, Town and Country, MO, United States. | | |
| **CONFERENCE FACILITATION** | | |
| Co-Organizer, Prairie Fire Beaming Bioneers Conference, Galesburg IL, Oct 2015; Oct 2014.  Workshop facilitator. BaltAdapt Macro-regional Workshop: Climate Change and Agriculture - responding to Baltic Sea-wide Challenges, Norrköping, Sweden, May 2012.  Workshop facilitator and rapporteur. Sustainable Phosphorus Summit, Sydney, Australia, Mar 2012. | | |
| **OTHER POSITIONS HELD** | | |
| **Partner**; Dynamic Sustainability Consulting, Galesburg IL and Corvallis OR, USA. 2015-2017  **Director of Campus Sustainability Initiatives**; Knox College, Galesburg IL, USA. 2014-2015 | | |
| **LEADERSHIP & COMMUNITY SERVICE** | | |
| **Medical intern supervisor**, Champaign Area Trap, Spay, Neuter & Adoption Program, Champaign IL, 2021  **Vice President of Membership**, Coalition of Graduate Employees (AFT Oregon local 6069), Corvallis OR, 2019-2020  **100+ hour ReStore Volunteer**, Benton County Habitat for Humanity, Philomath OR, 2016-2020  **Foster volunteer**, Heartland Humane Society, Corvallis, OR, 2016-2020  **Zero-Waste Coordinator**, Corvallis Rotary Half-Marathon, Corvallis OR, 2018-2020 | | |
| **Vice Chair**, Youth Climate Action Now Corvallis, Corvallis OR, 2016-2019  **Peer Facilitator**, Showing Up for Racial Justice, Corvallis OR, 2017-2018  **Block Captain**, Corvallis Sustainability Coalition Waste Prevention Action Team, Corvallis OR, 2017-2019  **Legal Redress Committee Member**, NAACP of Corvallis, Corvallis OR, 2016-2017  **Process Advisor**, Knox College Title IX program, Galesburg IL, 2015  **Advisory Board Member**, Sustainable Business Center, Galesburg IL, 2014-2015 | | |
| **ADDITIONAL TRAINING & CERTIFICATIONS** | | |
| Professional development teaching seminar (30 hours), Oregon State University, 2019  Member organizer institute (20 hours), American Federation of Teachers Oregon, 2018  Master Recycler (38 hours), Corvallis OR, 2017  Sustainability in Higher Education Seminar (5 hours), American Association for Sustainability in Higher Education, 2012  Permaculture Design Certificate (90 hours), UK Permaculture Association, 2011  Missouri High School Biology Teaching Certification, American Board for Certification of Teacher Excellence, 2009 | | |
| **ACADEMIC SOFTWARES** | | |
| Statistical analysis (R language; MS Excel)  Survey and questionnaire tools (Qualtrics)  GIS analysis (QGIS; ArcGIS; AGOL)  Zotero citation management | | |
| **LANGUAGES** | | |
| **English** (native tongue)  **Spanish** (speak, read, and write at intermediate level)  **Swedish** (speak, read, and write at intermediate level) | | |