

# CALLI VANDERWILDE

509.951.8925 | [calliv@umich.edu](mailto:calliv@umich.edu)

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## EDUCATION

**University of Michigan School for Environment and Sustainability** (Ann Arbor, MI)

**Ph.D. Pre-Candidate**, Resource Policy & Behavior, Expected April 2022

- Studying climate change adaptation in the food-water-energy nexus; COP24 delegate; Research on social protection and climate resilience; Phi Kappa Phi Honor Society Student Vice President.

**Master of Science**, Natural Resources and Environment: Sustainable Systems, April 2018

- Sustainability Without Borders Program Assistant; Research on rural electrification in Democratic Republic of Congo; Co-authored multiple Michigan Sustainability Cases; Published in *Agora Journal of Urban Planning and Design*; Student Government Representative.

**University of Portland** (Portland, OR)

**Bachelor of Science**, Environmental Studies, May 2016; **Bachelor of Arts**, Spanish, May 2016

- Academic Honors: *Magna Cum Laude*
  - Competed four years as a Division I Athlete in cross-country and track; International study in North Queensland, Australia and Segovia, Spain; Student Athlete Advisory Committee representative; Co-President of campus chapter of Blue Key Honors Society; Undergraduate research and presentations on cell signaling and microclimate analysis; Academic tutor in chemistry and biology.
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## PUBLICATIONS

- **VanderWilde, C.P.**, and Fitch T. (*in press*). *Fueling a Renewable Energy Transition*. Ann Arbor MI: University of Michigan.
  - **VanderWilde, C.P.**, and Stacey M.B. (2018). *Green Infrastructure and Stormwater Management*. Ann Arbor MI: University of Michigan.
  - **VanderWilde, C.P.** (2017). *Striving for Just Green Enough*. *Agora*, 62-66.
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## PRESENTATIONS

- **VanderWilde, C.P.**, Fitch, T., and Mueller, E. (2018). *Assessing Biomass-Solar Hybrid Microgrids in the Democratic Republic of Congo Through Farmer Surveys and Economic Modeling*. 2018 SEAS Capstone Conference: April 13. Ann Arbor, MI (USA).
- **VanderWilde, C.P.**, Holmes, B.A., and Eckmann, T.C. (2016). *Analyzing Water Balance to Optimize Green Roof Performance in Rainy Climates*. Annual Meeting of the Association of American Geographers: March 29-April 2, 2016. San Francisco, CA (USA).
- **VanderWilde, C.P.**, and Eckmann, T.C. (2016). *Seasonal Patterns in Soil Moisture on an Ecoroof in Portland*. Proceedings of the Oregon Academy of Science Annual Meeting, Volume LXXV: February 27, 2016. Forest Grove, OR (USA).
- **VanderWilde, C.P.**, Holmes, B.A., and Eckmann, Ted C., (2015). *Energy Savings Potential and Sensible Heat Flux Analysis of Green and Impervious Rooftops in the US Pacific Northwest*. EOS Transactions, American Geophysical Union, Fall Meeting Supplement. December 14-18, 2015. San Francisco, CA (USA).

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- **VanderWilde, C.P.**, Coppernoll-Houston, D.M., Holmes, B.A., and Eckmann, T.C. (2015). *Comparative Analysis of Sensible Heat Fluxes on Vegetated Versus Non-Vegetated Rooftops in Portland, OR*. Proceedings of the Oregon Academy of Science Annual Meeting, Volume LXXIV: February 28, 2015. Portland, OR (USA).
- Holmes, B.A., **V VanderWilde, C.P.**, and Eckmann, T.C. (2015). *Monitoring Xeric Species Performance on Ecoroofs Using UV-Visible/Near-IR Spectroscopy and NDVI*. EOS Transactions, American Geophysical Union, Fall Meeting Supplement. December 14-18, 2015. San Francisco, CA (USA).
- Holmes, B.A., **VanderWilde, C.P.**, and Eckmann, T.C. (2016). *Performance of Novel Soils Designed for Ecoroof Applications in the US Pacific Northwest*. Annual Meeting of the Association of American Geographers: March 29-April 2, 2016. San Francisco, CA (USA).

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## TEACHING EXPERIENCE

**University of Michigan, Graduate Student Instructor ENVIRON 207** (Ann Arbor, MI) September 2018-Present

- Working with Dr. Joshua Newell in the School for Environment and to provide instruction to undergraduate students in sustainability topics
- Teaching three discussion sections; Preparing weekly material to reinforce and expand upon lecture topics; Holding office hours to answer student questions related to homework assignments; Grading essays, quizzes, and exams

**University of Michigan, Graduate Student Instructor EARTH 325** (Ann Arbor, MI) January 2017-April 2018

- Working with Dr. Udo Becker in the Department for Earth and Environment to provide instruction in Environmental Geochemistry
- Holding office hours to answer student questions related to homework assignments; grading homework assignments and exams

**Language Adventure, Spanish Instructor** (Ann Arbor, MI) September 2016-December 2016

- Providing Spanish language classes to first and second-grade students at Angell Elementary School
- Preparing and planning lessons and developing classroom materials to engage students with basic concepts/themes in Spanish

**University of Portland, Academic Tutor** (Portland, OR) September 2013-May 2016

- Offering individualized tutoring in various biology and chemistry topics to students enrolled in the university

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## EXPERIENCE

**United Nations Industrial Development Organization (UNIDO), Intern (Vienna, Austria) June-August 2018**

- Contributing to understanding the prerequisites for successful technology facilitation efforts by building upon previously initiated UNIDO work
- Reviewing relevant literature to inform an appropriate assessment methodology, develop a sound methodological framework, and apply the framework to two case studies of Poznan Strategic Program projects, GEF 4037 and GEF 4042; Synthesizing and articulating findings into a structured report
- Participating in the UNIDO-led BRIDGE for Cities Expert Group Meeting (EGM) and preparing a “Summary of Proceedings” to distribute to all attendees

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## **World Bank, Climate Change Group Intern** (Washington D.C.) May-July 2017

- Conducting guided research on frontier projects, topics of interest, and innovative issues for World Bank leadership and engagement on climate resilience, adaptation, and mitigation
- Delivering guidance on resilience M&E methodologies and tools to country clients, World Bank staff, and partner organizations. Contributions included running a resilience M&E workshop and writing a post-workshop report: *2<sup>nd</sup> Workshop on Monitoring and Evaluation for Resilience Building Projects*
- Received official acknowledgement for contributions to an *Evaluation of resilience-building operations : operational guidance paper for project task teams* and *World Bank resilience M&E (ReM&E): good practice case studies*
- Assisting with the implementation of the Climate Change Action Plan Monitoring, evaluating, and reporting on current projects to support commitments and to identify best practices
- Providing consultancy work on a novel concessional finance framework, and tracking World Bank progress on financial commitments to climate change adaptation and mitigation

## **University of Michigan, Sustainability Without Borders, Program Assistant** (Ann Arbor, MI) April 2017—Present

- Providing effective, efficient support to ensure smooth project delivery; including administrative, financial, logistical, and information management assistance for teams with ongoing activities in Peru, Liberia, and China
- Restructuring the Program's project management system, including developing handbooks, guides, and workshops to ensure project integrity
- Creating, implementing, and maintaining an efficient filing system for the Program to maintain a working organizational memory
- Maintaining, managing, and updating the Program's external website ([swb.seas.umich.edu](http://swb.seas.umich.edu)), and the Program's internal task management site; holding team members accountable to deliverables and performance expectations

## **University of Michigan, Sustainable Micro-Grid Researcher** (Ann Arbor, MI; Beni, DRC) February 2017—Present

- Collaborating with Kivu Green Energy, COPAK, and other researchers to perform technical, social, and environmental assessments for the transition to solar-biomass hybrid renewable energy microgrids in Beni, Democratic Republic of Congo
- Designing a survey instrument to measure farmer willingness-to-accept (WTA) compensation for crop residues; Performing econometric analysis on survey results to determine factors influencing WTA
- Creating a framework for best practices for the implementation of renewable microgrids based on optimization modeling

## **University of Portland, Microclimate Student Researcher** (Portland, OR) September 2014-May 2016

- Collecting data on the microclimate using specialized equipment (weather stations, weather balloon, drone)
- Quantifying the energy saving potential and sensible heat flux of green versus impervious rooftops and analyzed green roof water balance to determine optimal performance and stormwater runoff mitigation properties
- Presenting research at the local and national level: Oregon Academy of Sciences (February 2015, 2016), American Geographer's Union Virtual Showcase (October 2015), Murdock Conference (November 2015), and the Association of American Geographers Conference (April 2016)

## **University of Portland, Cell-Signaling Student Researcher** (Portland, OR) September 2014-May 2016

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- Working under the guidance of Dr. Jeffrey Brown, to complete investigative experiments into the cell signaling mechanisms of Wnt proteins. Responsibilities included splitting and transfecting cells, and performing isoelectric focusing experiments to determine the native pI of Wnt.
- Received technical acknowledgement in resulting publication: *Quantitative pH Assessment of Small-Volume Samples Using a Universal pH Indicator*

## **City of Spokane Valley, Stormwater Engineering Intern** (Spokane Valley, WA) June 2014-August 2014

- Conducting surveys to determine best stormwater capture practices in both residential and commercial settings
- Utilizing GIS software to design an update map of the area's aquifer, input field data regarding storm drain conditions and maintenance needs
- Collaborating on a report for the US EPA outlining potential conflicts of interest at a proposed project site

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## **SKILLS, ACTIVITIES, AND INTERESTS**

- **Coursework:** International Environmental Policy, Environmental Systems Analysis, Environmental Economics, Environmental Finance, Negotiation Skills, Systems Thinking for Sustainability, Impact Evaluation: Economics of Environment and Development, Strategies for the Base of the Pyramid, Technology in Community Development, Urban Sustainability, Green Development
- **Awards:** Weinberg Population, Development, and Climate Change Fellowship (May 2018); Phi Kappa Phi Project Grant (May 2018); Fulbright Semi-finalist (May 2016); Suzanne S. Fields Environmental Studies Award, University of Portland (May 2016), University of Portland Provost's Initiative on Undergraduate Research Award (September 2016), Murdock Conference Poster Prize (November 2015), Nominated for NCAA Post-Graduate Scholarship (April 2016)
- **Technical skills:** Project management, Spanish fluency, systems analysis, technical writing, Excel modeling
- **Professional skills:** Personal accountability, problem solving, time management, leadership, communication, collaboration