

ALISON ADAMS

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Rubenstein School of Environment and Natural Resources
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EDUCATION

University of Vermont Rubenstein School of Environment & Natural Resources, Burlington, VT *expected 2020*
In progress Ph.D., Natural Resources (ABD since April 2019)

Gund Institute for Environment Graduate Student Fellow
Graduate Teaching Program
Economics for the Anthropocene (E4A) program in Ecological Economics

Advisor: Rachelle Gould (Environmental Studies)

Committee: Taylor Ricketts (Environmental Science), Joe Roman (Environmental Science, Wildlife & Fisheries), Luis Vivanco (Anthropology)

University of Vermont Rubenstein School of Environment & Natural Resources, Burlington, VT 2016
M.S., Natural Resources

Certificate, Ecological Economics
Thesis: "Methods for the spatial modeling of forest carbon in the Northern Forest"

Advisor: Jennifer Pontius (Environmental Science)

Committee: Gillian Galford (Environmental Science), Scott Merrill (Plant & Soil Science)

Yale University, New Haven, CT 2009
B.A., History of Art

Distinction in History of Art; Vincent D. Andrus Prize for senior essay

Advisor: Alexander Nemerov (History of Art)

TEACHING & MENTORSHIP

Mentor, Undergraduate research projects, Kona, HI & University of Vermont 2018 – present
(6 students) Primary acting mentor for an undergraduate senior thesis in College of Arts & Sciences Department of Geography, including development and execution of research on coastal access and equity on Hawai'i Island, HI. Instructed five undergraduate research assistants in various skills including interviewing, transcribing, and coding qualitative data.

Graduate Teaching Program, University of Vermont 2017 – present
Competitive program for select graduate students to develop additional knowledge and experience in pedagogical theory and practice through workshops, observation of award-winning teachers, readings, and discussion. Topics covered include teaching to diverse students, teaching with technology, effective group projects, and service learning/capstone courses, among others.

Co-Instructor, ENVS 195: Non-material Values of Ecosystems, University of Vermont Fall 2018
Investigating human well-being and its non-material relationships to ecosystems

Course Development

- Non-material Values of Ecosystems (13 students, 100-level) Fall 2018
- *grad* Ecological Law & Governance (6 students, 300-level) Fall 2017
- *grad* Climate Justice in an Urban World (~20 students, 300-level) Summer 2017

Teaching Assistant, University of Vermont

- Environmental Problem Solving (RSENR capstone) (84 students; 28 direct mentees, 200-level) Fall 2019

- Environmental Art, Literature, and Media (45 students, 100-level) Spring 2017
- Social Processes and the Environment (~80 students, 100-level) Fall 2016
*nominated as outstanding TA of the year
- Applied Environmental Statistics (~50 students, 100-level) Spring 2015
- Ecology, Ecosystems, and Environment (~80 students, 100-level) Fall 2014

Contributions to courses – invited lectures, University of Vermont (planned and led entire class)

- “Ecological economics principles.” (Social Processes and the Environment, 130 students). October 2019.
- “Ecosystem Services: The concept and the debates” (Ecological Economics, 100 students). October 2017.
- “Analyzing art: jumping into visual analysis.” (Env. Literature, Art, and Media, 45 students). February 2017.
- “Land Art of the 1960s and 70s: sculpting the environment.” (Social Processes and the Environment, 80 students). November 2016.
- “An introduction to ecological economics.” (Social Processes and the Environment, 80 students). October 2016.

RESEARCH POSITIONS

SESYNC Graduate Pursuit Project Co-Leader 2018 - present

Power of the pen: linking social-ecological narratives of coral reefs in news media to policy action

Co-leading an interdisciplinary team of six PhD students in a project to identify different narratives related to coral reefs in the news media, and examine whether and how the relative prevalence of these narratives over time relates to reef health and/or policy action to protect reefs in the three case study locations of Hawai'i, Belize, and Australia's Great Barrier Reef.

Spatial Modeling Consultant, Forest Ecosystems Monitoring Cooperative, Burlington, VT 2018 - present

USFS project FY17-VT-031: Maintaining Forest Integrity: Planning tools to minimize loss and fragmentation, awarded to Vermont Department of Forests, Parks & Recreation

Mapping historical forest cover change and forest fragmentation in northeastern United States between 1985 and 2015; projecting forest cover change in the region from 2015 to 2075.

Gould Lab Research Assistant, University of Vermont 2016 – present

Cultural ecosystem services research

Assessing the role of cultural ecosystem services research in decision-making contexts; exploring the tensions within and challenges of the cultural ecosystem services framework

Gund Institute for Environment Research Assistant, University of Vermont 2019

Exploring new approaches to the Genuine Progress Indicator

Developed social and environmental progress metrics for the state of Vermont based on Kate Raworth's "Doughnut Economics" framework, including state-specific metrics for habitat loss, carbon dioxide emissions, air quality, income, social inequality, life satisfaction, and others.

Pontius Lab Research Assistant, University of Vermont 2014 – 2016

Remote sensing approaches to forest mapping

Mapped tree species using simulated hyperspectral imagery generated from Landsat images of the northeastern US. Participated in and presented at meetings for federal and state decision-makers, including the US Forest Service, Vermont Agency of Natural Resources, and New York DEC

PUBLICATIONS (♦ undergraduate mentee)

- Brooks, J. ♦, Adams, A., Morse, C., Gould, R. Access to blue space in postcolonial Hawai'i. *in prep for American Geographical Review.*
- 9. Hackenburg, D., Adams, A., Brownson, K., Borokini, I. T., Gladkikh, T., et al. 2019. Meaningfully engaging the next generation of ecosystem services specialists. *Ecosystem Services* 40.

8. **Adams, A.**, Pontius, J., Galford, G., Merrill, S., & Gudex-Cross, D. 2019. Simulating forest cover change in the northeast: decreasing forest area and increasing fragmentation. *Landscape Ecology* 34(10): 2401-2419.
7. Gould, R., Morse, J. & **Adams, A.** 2019. Cultural ecosystem services and decision-making: How researchers describe the applications of their work. *People & Nature* 1(4): 457-475.
6. **Adams, A.**, "Photographs, performance, and protest: The fight for climate justice through art." 2019. In *Local Activism for Global Climate Justice: The Great Lakes Watershed*, ed. P.E. Perkins. New York, NY: Routledge.
5. **Adams, A.** & Morse, J. 2019. Non-Material Matters: A call for integrated assessment of benefits from ecosystems in research and policy. *Land Use Policy* 80: 400-402.
4. Crownshaw, T., Morgan, C., **Adams, A.**, Britto dos Santos, N., Sers, M., Gilbert, L., Damiano, A., Haage, G. Y., Clare, S., Kumar, K., & Greenford, D. 2018. Over the Horizon: exploring the conditions of a post-growth world. *The Anthropocene Review*.
2. **Adams, A.**, Pontius, J., Galford, G, Merrill, S., & Gudex-Cross, D. 2018. Modeling carbon storage across a heterogeneous mixed temperate forest: the influence of forest type specificity on regional-scale carbon storage estimates. *Landscape Ecology* 33(4): 641-658.
2. Gudex-Cross, D., Pontius, J. & **Adams, A.** 2017. Enhanced forest cover mapping using spectral unmixing and object-based classification of multi-temporal Landsat imagery. *Remote Sensing of Environment* 196: 193-204.
1. **Adams, A.** 2009. Tripping through Canvas: Psychedelia in Morris Louis's Unfurleds, then and now. Yale University Senior Thesis. ***awarded the Vincent D. Andrus prize**

SELECTED PRESENTATIONS (talks, unless otherwise indicated; * invited; ♦ undergraduate mentee)

Adams, A., Gould, R., & Brooks, J. ♦ 2019. "I don't want our culture to become just stories": Assessing the impacts of reef and coastal change on non-material connections to nature in West Hawai'i. Global Environmental Justice Conference. Nov 14, 2019. New Haven, CT. *conference poster*

Brooks, J. ♦, **Adams, A.**, & Gould, R. 2019. Access to blue space in postcolonial Hawai'i. American Association of Geographers Annual Meeting. April 4, 2019. Washington, DC.

Adams, A., Gould, R., & Brooks, J. ♦ 2018. Cultural ecosystem services and coral reefs in West Hawai'i. A Community on Ecosystem Services (ACES) Annual Meeting. Dec 4, 2018. Arlington, VA.

Gould, R., Morse, J., & **Adams, A.** 2018. Cultural ecosystem services and decision-making: a review. A Community on Ecosystem Services (ACES) Annual Meeting. Dec 4, 2018. Arlington, VA.

Adams, A., Gould, R., & Brooks, J. 2018. Non-material values and coral reef decline on Hawai'i Island, HI. Annual Hawai'i Ecosystems Meeting. June 25, 2018. Hilo, HI.

***Adams, A.** *panelist*. Art and the Landscape. Burlington City Arts. Nov 2, 2017. Burlington, VT.

Adams, A. 2017. Ecosystem Goods and Services: Core Concepts and Controversies. Canadian Soc for Ecological Econ Annual Conf. Oct 20, 2017. Montreal, QC.

Adams, A., Pontius, J., Galford, G., Merrill, S., & Gudex-Cross, D. 2016. 75 years of forest conversion in the Northeast: historical patterns and future projections. American Association of Geographers Annual Meeting. Apr 7, 2017. Boston, MA. Eastern Canada/USA Forest Science Conference. Sep 30, 2016. Burlington, VT. International Association for Landscape Ecology Annual Meeting. Apr 5, 2016. Asheville, NC.

Adams, A., Pontius, J., & Galford, G. 2016. Calculating carbon stored in the Northern Forest. Earth Science Information Partners Winter Meeting. Jan 6, 2016. Washington, DC. *conference poster* Vermont Monitoring Cooperative Annual Meeting. Dec 11, 2015. Burlington, VT.

SERVICE

UVM EcoCulture Lab Fundraising and Planning Committees, University of Vermont 2018 – present
Participated in organization of Feverish World, an arts and science symposium bringing artists and scientists together, primarily in community (vs. academic) spaces to collectively consider how to take care of an ever more “feverish” world. Event drew 50+ artists including Néle Azevedo and Torkwase Dyson. Member of fundraising committee and actively involved in planning EcoCulture Lab’s next activities.

Steering Committee Student Representative, E4A collaborative partnership 2017 – present
Spearheaded effort to identify and invite local artist to serve as cohort’s “community scholar;” initiated effort, then collaborated with other graduate students and a trained facilitator to organize a workshop at student retreat addressing within-group conflict over social justice issues; attendance and representation of student interests at monthly meeting of lead partnership faculty.

Expert Reviewer, IPCC 2019 Refinement of Guidelines for National Greenhouse Gas Inventories 2018
Provided input on methods and recent advances in using land cover data to calculate carbon storage.

Program Committee Member & “Weed Warrior”, Rock Creen Conservancy, Washington, DC 2012 – 2014
Designed and executed citizen science survey counting trees affected by English Ivy in Rock Creek Park to inform Conservancy’s ivy removal plan; provided input and direction on Rock Creek Conservancy activities.

SELECTED PROFESSIONAL EXPERIENCE

Stewardship Intern, Northeast Wilderness Trust, Montpelier, VT 2015
Monitored conservation easements and prepared monitoring reports for properties managed by NWT in New Hampshire, New York, and Vermont

Community Outreach Coordinator, KaBOOM!, Washington, DC 2011 – 2013
Coordinated corporate-funded projects with external community partners, including interviewing and selecting candidates for projects, and leading efforts to improve and standardize editing of all formal recommendations shared with funders

Fellow, Environment America, Washington, DC & Midwestern states 2009 – 2010

- Preservation Associate (August 2009 – April 2010)
Researched and developed several state-based campaigns to improve funding and protections for ten national parks and protected areas; crafted messaging, strategy, outreach and media materials for campaigns; presented campaigns to Environment America Board of Directors; lobbied, consulted, and engaged with legislators, advocates, and Department of Interior officials regarding a variety of additional public lands preservation issues, including the Land and Water Conservation Fund, mining proposals near the Grand Canyon, and the Roadless Rule
- Citizen Outreach Campaign Assistant Director (April 2010 – August 2010)
Ran fundraising campaigns in Chicago, Milwaukee, and Madison to protect the Great Lakes and Wisconsin’s inland lakes from invasive species and agricultural runoff; collected and submitted petitions to state and federal legislators

ADDITIONAL TRAINING

SESYNC Socio-Environmental Interdisciplinary Research & Leadership Workshops 2017, 2018

- Award recipient for competitive graduate-level workshop on interdisciplinary collaboration (2017)
- Invited attendee at workshop on leadership skills for interdisciplinary research team leaders (2018)

Participatory Action Research (PAR) Workshop 2017
Graduate level workshop at UVM led by noted PAR expert V. Ernesto Méndez, covering degrees of community participation in research and strategies to improve project outcomes for communities.

Sustainable Farming Apprentice, Mandala Farm

2009

700 hours of on-farm training in sustainable, horse-powered farming methods and stewardship practices.

AWARDS, HONORS & GRANTS (♦ undergraduate mentee)

2018	SESYNC Graduate Student Pursuit Project Award – in-kind and travel support
2018	(Mentor) UVM Environmental Studies Ian Worley Award - \$4,650
2018	UVM Rubenstein School Chrysalis Award - \$5,000
2017	UVM Rubenstein School Outstanding TA of the Year (nominated)
2015, 2017	UVM Graduate Student Senate Mini Grant - \$750, \$800 (awarded twice)
2015	USDA NSRC Graduate Research Assistantship Grant - \$10,000
2015	Rubenstein Graduate Student Association Mini Grant - \$200
2009	Vincent D. Andrus prize – Best senior essay on a topic in American art, Yale University
2009	Distinction in History of Art – Yale University

SKILLS

Field & analytical: Interviewing, surveys, qualitative data analysis, participatory mapping, visual analysis, Northeastern tree identification, GPS

Software & coding: ArcGIS, Google Earth Engine, DINAMICA-EGO spatial modeling software, STELLA systems dynamics modeling platform, JMP & SPSS statistical software, NVivo, Python

Publishing & presentation: Microsoft Office Suite, Prezi, WordPress, social media (Facebook, Twitter, Instagram)