

Alaina Kinol (née Boyle)

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EDUCATION

- Northeastern University**, Boston, MA since 2020
Doctoral Candidate of Public Policy, Sustainability and Resilience concentration
- Dissertation topic: Navigating Power and Obstruction in the Late Petroleum Era
- Wageningen University**, Wageningen, NL 2023
PhD Summer School on The Natures of Life and Death: Political Ecologies of Collapse, Transformation, and Revival
- London School of Economics**, London, UK 2018
Master of Science with Distinction in Environmental Policy and Regulation
- Dissertation (2018 Winner, Best Environmental Policy and Regulation Dissertation Award): All for one and one for all: Does multistate climate policy collaboration in Northeastern US states foster state climate policy diffusion?
- McGill University**, Montreal, QC, Canada 2016
Bachelor of Arts, Honours in Agricultural and Environmental International Development Studies, Minor in Economics

RESEARCH INTEREST AREAS

Energy transitions, Transformational adaptation; Impacts of climate policy obstruction activities; Climate justice in policy frameworks; Policy analysis and evaluation

ACADEMIC RESEARCH EXPERIENCE

- Northeastern University School of Public Policy and Urban Affairs**, Boston, Massachusetts
Research Lead: Policy Impacts of Fossil Fuel Energy, Plastics, and Agriculture 2021 - 2023
- Designing and managing a project to assess the policy effects of fossil fuel investment in energy, plastic, and agricultural production.
 - *This research is funded by a Climate and Social Science Research Network Grant.*
- Research Lead: Green New Deal Frameworks Project 2021 - 2023
- Designed, lead authored, presented, and managed a team project to evaluate 13 Green New Deal policy proposals, delivering a publication and accessible public-facing analysis.
 - Managed project expansion to assess the potential for Green New Deal frameworks for higher education institution climate and climate justice plans and policies, including applying for and earning a grant to produce public-facing materials including op-eds
 - *This research was funded by the CSSH Multi-generational Research Team Program.*
- Research Assistant: Narratives of Resilience in Puerto Rico Project 2021
- Reviewed Puerto Rican energy and climate legislation pre- and post- Hurricane Maria to identify effects of disaster experience as a focusing event to reframe narratives of resilience
 - *This research is funded by the NSF Science, Technology and Society Program.*

Research Assistant: Nature-based Solutions in UNDP LAC Portfolio Project 2020—2021

- Researched frameworks for cost-benefit analysis of Nature-based Solutions and UNDP LAC project data to develop recommendations for a portfolio-specific framework
- *This research was funded by the United Nations Development Programme.*

Co-Researcher: Implementing Environmental Justice Project 2021

- Identified a gap with respect to evaluation for environmental justice policy and planning through communication with policymakers and practitioners, and developed a series of recommendations for evaluating environmental justice as part of a collaborative policy brief with visiting fellow Ken Kimmell

Grantham Research Institute for Climate Change and the Environment, London, UK 2018

Research Assistant: Climate Change Laws of the World Project

- Identified national legislative targets for climate change mitigation and adaptation from countries around the world and recorded in database
- Analysed the nature and extent of targets relative to Paris commitments for a report on legislated climate change mitigation and adaptation targets following the Paris agreement

Research Assistant: Energy Choices and Behaviour Project

- Scheduled, conducted, and transcribed in-depth interviews across the UK regarding motives for solar energy adoption from a gender perspective
- Assessed gender dynamics of solar energy adoption through written summaries and qualitative and quantitative content analysis of interview and diary notes on energy use for final report for the UK component of a European study on energy behaviour change

GRANTS

National Institute of Environmental Health Sciences T32 Training Grant, Social Science

Environmental Health Research Institute and the Silent Spring Institute 2022-2025

Climate and Social Science Network Research Grant, “Intersections and Impacts of the Fossil Fuel-Plastic-Agriculture Complex: Mutual Reinforcement and Embedded Injustice” with Jennie C. Stephens, PI 2021-2023

CSSH Multi-Generational Research Teams Program, “Comparing Green New Deal

Frameworks”, Graduate Student Leader 2021

NSF Science, Technology, and Society Program, “Power in Puerto Rico: Sociotechnical

imaginaries, infrastructure publics, and electricity”, Research Assistant. (Jennie C. Stephens, PI and Laura Kuhl, co-PI) 2020-2021

PROFESSIONAL EXPERIENCE

Office of City Councilor Wu, Boston, MA

Civic Action Partnership Barr Foundation Climate Policy Fellow 2021

- Led the project, including team interns, to research and develop a framework to evaluate the impacts of Councilor Wu’s Vision for Boston Public Schools
- Completed additional research to support assessment of other policies, including a report on the benefits and costs of a fare-free bus system and access in Boston city policymaking

E4TheFuture, Framingham, MA

Project Manager, Clean Energy Valuation

2020

- Led the project, including team interns and external consultants, to expand the DSESP: a repository of state-level utility energy efficiency cost-effectiveness test policies and values with guidance documents, to include research on non-energy impact quantification
- Co-managed development of the National Standard Practice Manual for cost-effectiveness testing of distributed energy resources (NSPM for DERs) and coordinated partners' state-level outreach on the original manual for energy efficiency resources (NSPM), referenced in or used to "test the BCA test" in over 30 states
- Co-developed a national-level program to foster and support integrated home energy-plus-health cross-sector pilot programs in disadvantaged communities

Research Associate, Evaluation, Monitoring, & Valuation (EM&V) Team

2019

- Managed the project to research and develop the DSESP, completing initial population for 50 states and 2 jurisdictions
- Co-managed initial development and research of the NSPMDERs, as well as researching and coordinating state-level outreach on the existing manual for energy efficiency
- Researched and supported implementation of integrated home energy-plus-health pilots to improve and better understand occupant health benefits of energy efficiency projects

New York State Department of Environmental Conservation, Albany NY

2017

Office of Climate Change Intern

- Researched, reviewed, and processed GHG emissions data of every community in New York for municipal use in environmental activities
- Collected, assessed, and documented municipality action item submissions for New York Climate Smart Communities program, including corresponding with new communities
- Performed assorted administrative support tasks to advance NYS climate policy implementation including conducting analysis and delivering reports on policy, technical document, and scientific data regarding impacts of climate change on ecosystems and the role of and potential to mitigate refrigerant disposal in causing climate change

Citizens Climate Lobby, Albany NY

2016 – 2017

Northeast Regional Intern, Albany Group Leader

- Researched policy updates and recorded notes for monthly state legislation meetings
- Facilitated and attended educational and lobbying events in support of carbon pricing mechanisms such as the Northeast Regional Conference, including budget management, service booking, and technical support provision

Women of Uganda Network (WOUGNET), Kampala, Uganda

2015

Gender Policy Advocacy Intern

- Researched intersection of women's health and economic empowerment using Gender Evaluation Methodology (GEM) for the national assessment of Gender Equality
- Drafted research and grant proposals, particularly to raise funds for the Gender and ICT Policy Advocacy program

AWARDS AND FELLOWSHIPS

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| Earth Systems Governance Research Fellow | 2023—present |
| Outstanding Graduate Student Experiential Award, Northeastern University | 2022 |
| 2021 Fellow, Boston Civic Action Project Barr Foundation Grant recipient | 2021 |
| Best Environmental Policy and Regulation Dissertation Award, LSE All for one and one for all: Does multistate climate policy collaboration in Northeastern US states foster state climate policy diffusion? | 2018 |

PUBLICATIONS, POLICY BRIEFS, AND OTHER WORK

Publications

Kinol AD and Kuhl L. 2023. The role of disasters in shaping narratives of resilience and transformation in Puerto Rico. *Current Research in Environmental Sustainability* 6:100227. <https://doi.org/10.1016/j.crsust.2023.100227>

Kinol AD, Arango-Quiroga J, and Kuhl L. 2023. Opportunities for nature-based solutions to contribute to climate-resilient development pathways. *Current Opinion in Environmental Sustainability* 62: 101297. <https://doi.org/10.1016/j.cosust.2023.101297>

Kinol AD, Miller E, Axtell H, Hirschfeld I, Leggett S, Si Y, and Stephens JC. 2023. Climate justice in higher education: a proposed paradigm shift towards a transformative role for colleges and universities. *Climatic Change* 176:15. <https://doi.org/10.1007/s10584-023-03486-4>

Boyle AD. 2022. Shanti Gamper-Rabindran: America's Energy Gamble: People, Economy and Planet. *Human Ecology*. <https://doi.org/10.1007/s10745-022-00323-7>

Boyle AD, Leggat G, Morikawa L, Pappas Y, and Stephens JC. 2021. Green New Deal proposals: Comparing emerging transformational climate policies at multiple scales. *Energy Research & Social Science* 81:102259. <https://doi.org/10.1016/j.erss.2021.102259>

Policy Briefs

Boyle AD, Robbins T and Montgomery M. 2021. Evaluation of the Fare-Free Bus for Boston Pilot Proposal. White Paper. Dukakis Center for Urban and Regional Policy and Office of City Councilor Michelle Wu. <https://cssh.northeastern.edu/dukakiscenter/evaluation-of-the-fare-free-bus-for-boston-pilot-proposal/>

Boyle AD and Kuhl L. 2021. Nature-based Solutions are Job and Livelihood Solutions. Policy Brief. School of Public Policy and Urban Affairs, Northeastern University and United Nations Development Programme. <https://www.adaptation-undp.org/node/6650>

Kimmell K, **Boyle AD**, Si Y, and Sotolongo M. 2021. A User's Guide to Environmental Justice: Theory, Policy, & Practice. Policy Brief. Dukakis Center for Urban and Regional Policy. <https://cssh.northeastern.edu/dukakiscenter/a-users-guide-to-environmental-justice-theory-policy-and-practice/>

Kuhl L and **Boyle AD**. 2021. Nature-based Solutions, Market Resilience, and Food Sovereignty. Policy Brief. School of Public Policy and Urban Affairs, Northeastern University and United Nations Development Programme. <https://www.adaptation-undp.org/node/6651>

Technical Papers

Kuhl L and **Boyle AD**. 2021. Nature-based Solutions Valuation Report. Technical Report. School of Public Policy and Urban Affairs, Northeastern University and United Nations Development Programme. <https://cssh.northeastern.edu/policyschool/undp-releases-nature-based-solutions-valuation-report/>

NESP. 2020. National Standard Practice Manual for Benefit-Cost Assessment of Distributed Energy Resources. E4TheFuture. Coordinated and edited by J Michals and **AD Boyle**. <https://www.nationalenergyscreeningproject.org/national-standard-practice-manual/>

Murungi I, Bukare A, Atim S, **Boyle AD**, Dauvergne M. 2015. Final Report for the GEKS Uganda National Assessment. Gender Equality in Knowledge Society Research 2015. WOUGNET https://owsd.net/sites/default/files/National%20Assessment%20on%20Gender%20and%20STI%20-%20Uganda_1.pdf

Technical Resources

Database of Screening Practices, v.2, E4TheFuture 2020

Inventory of Applicable Policies and Relevant Impacts Spreadsheet, E4TheFuture 2020

Blogs and Op-Eds

Boyle AD and Stephens JC. 1 September 2022. [Higher education needs a new mission. How about climate justice?](#) The Boston Globe.

Boyle AD and Stephens JC. 12 November 2021. [Michelle Wu's victory heralds a new age of climate politics.](#) The Hill.

Boyle AD. 13 December 2019. [TRCs and Sugar Cookies: A holiday review of cost-effectiveness testing practices.](#) NESP.

PAPERS IN PROGRESS

"Examining Knowledge and Epistemic Justice in the design of Nature-based Solutions for Water Management" (with Johan Arango-Quiroga and Laura Kuhl, in peer review)

"Utter Trash: (Mis-)Alignment of Plastic Recycling Policies and Human Behavior" (in revision)

"Retweeting obstruction: a twitter network analysis of the Carbon Complex and its implications for climate policy" (with Yutong Si and Jennie C Stephens)

"Neoliberal Nature-based Solutions and Sustainable Transitions in West Virginia" (first author with Laura Kuhl and Johan Arango-Quiroga)

"The Carbon Complex and A Theory of Obstruction as a Constraint to the Policy Process" (first dissertation chapter)

MEDIA APPEARANCES, PRESENTATIONS, PANELS, AND CONFERENCE ORGANIZING

[How do we contribute to sustainable development and address climate change at the same time?](#)
Cyrus Moulton (article interview), **Northeastern News** 2023

"Presenting peer-reviewed research to lay audiences" (invited guest lecturer) **Northeastern SPPUA PhD Seminar series** 2023

"Implications of Narratives of Resilience and Transformation in Puerto Rico for Sustainable Transitions" (presenter) **International Sustainability Transitions Conference** 2022

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| “Nature-based Solutions and Climate-Resilient Development” (presenter) International Sustainability Transitions Conference | 2022 |
| “Nature-based Solutions and Just Climate-Resilient Development: Opportunities & Challenges” (presenter) Earth Systems Governance Conference | 2022 |
| “Addressing the Carbon Complex for a More Just Transition” (presenter – Towards just transitions: Ambitious climate policies and social fairness panel), STS Graz | 2022 |
| “Climate Justice Planning in Higher Education: How can Colleges and Universities Promote Societal Transformation?” (presenter – Liberalism’s Limits for Climate Justice panel), 2022 American Association of Geographers Annual Meeting | 2022 |
| <u>When it Comes to Climate Action in Politics, Michelle Wu Offers a Way Forward</u> by Molly Callahan (article interview), Northeastern News | 2021 |
| <u>“Could Mayor Wu’s Green New Deal Serve As a Blueprint for Other Leaders Nationwide?”</u> (on-air interview), WGBH News November 19, 2021 | 2021 |
| “Narratives of Resilience and Transformation in the Puerto Rico Energy Transition” (co-presenter), ISA-NE Conference | 2021 |
| “Climate Justice Panel” (co-panelist), Sustainability at Northeastern Pop-Up Class | 2021 |
| “Green New Deal Proposals: Comparing Frameworks” (presenter), 2021 APPAM Student Research Online Seminar Series | 2021 |
| “Identifying Green and Climate-Resilient Livelihoods, Jobs, and Development Options: Nature-based Solutions in Latin America and Caribbean” (co-presenter), UNDP | 2021 |
| “Reforming Cost-Effectiveness Testing to Value Energy Efficiency (and other DERs) Using a Common Framework” (co-presenter), National Home Performance Conference | 2020 |
| Northeast Regional Conference (co-organizer), Citizens Climate Lobby | 2017 |

TEACHING EXPERIENCE

Teaching Assistant

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| INTL 1101: Globalization and International Affairs, Northeastern University | 2022 |
| PPUA/INTL 5268: International Environmental Policy, Northeastern University | 2020 |

CERTIFICATIONS

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| Graduate Certificate in Policy Analysis – Northeastern CSSH | Dec. 2022 |
| Auditing and Evaluating Environmental Behaviour Change – Green Impact | Mar. 2018 |
| Web Design: HTML, CSS, and Bootstrap certification – LSE IT | Dec. 2017 |

GRADUATE SCHOOL ADVISORS

Laura Kuhl (Northeastern University and Tufts University)
 Jennie C. Stephens (Northeastern University)

OTHER PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

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| Research Fellow, Earth Systems Governance | 2023—present |
| Member, American Association of Geographers | 2022—present |
| Member, Sustainable Transitions Research Network | 2022—present |
| Member, Climate and Social Science Research Network | 2021—present |
| Member, Association for Public Policy Analysis and Management | 2020—present |
| Member, NEU Graduate Women in Science and Engineering | 2021—present |
| Member, NEU SPPUA Computational Science Discussion Group (CSDg) | 2021—present |
| Member, NEWIEE | 2019—present |
| Programme Representative, LSE MSc EPR | 2017—2018 |
| Albany, NY Chapter Leader, Citizens' Climate Lobby | 2016—2017 |

CONSULTING EXPERIENCE

Center for Economic Democracy

Consultant with Northeastern Experiential Network 2020

- Designed and spearheaded a project to evaluate 13 Green New Deal policy proposals, delivering an academic article, systemic database, and accessible public-facing analysis.

City of Sacramento

Consultant with Northeastern Experiential Network 2020

- Organized and facilitated team project to develop a plan to facilitate leadership diversity and talent pipeline for the City of Sacramento.

OTHER RELEVANT SKILLS

Software Proficiency: GIS, NetLogo, Tableau, Stata, SPSS, R, Python
Language: French (full fluency)