

CAROLINE JAFFE

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OBJECTIVE: I am an MIT Ph.D. graduate with climate and sustainability expertise and project management and leadership experience. My interdisciplinary skill set is centered on environmental modeling, geospatial data analysis, and nature-based climate solutions. I also have experience leading teams, developing strategy, managing projects, and communicating results to diverse stakeholders. My aim is to apply these skills, leveraging data and novel technologies, to advance climate action.

EDUCATION

- Ph.D. in Media Arts and Sciences, MIT Media Lab, Cambridge, MA** Received September 2022
Advisor: Joe Paradiso, Responsive Environments Group
Dissertation: "An Environmental and Economic Systems Analysis of Land Use Decisions in the MA Cranberry Industry"
- S.M. in Media Arts and Sciences, MIT Media Lab, Cambridge, MA** Received June 2017
Advisor: Sepandar Kamvar, Social Computing Group
Thesis: "Motivating Urban Cycling Through a Blockchain-Based Financial Incentives System"
- B.S. in Computer Science and Electrical Engineering, Yale University, New Haven, CT** Received May 2013
Graduated Cum Laude, with Distinction in the Major

RESEARCH EXPERIENCE

- Graduate Research Assistant, MIT Media Lab, Cambridge, MA** June 2015 - September 2022
Integrated satellite and sensor data analysis, environmental economics, and climate and ecosystem modeling to quantify the impacts of land use decisions and identify optimal areas for ecological restoration. Other research involved sensor hardware development and geospatial analysis applied to sustainable agriculture, transportation, and cities.
- Fulbright Research Fellow, TU Delft, Delft, Netherlands** September 2013 - June 2014
Collaborated with researchers at Delft University of Technology on a research project applying machine learning techniques to social media data to understand what motivates cycling behavior.

LEADERSHIP

- Founder, MIT Media Lab Climate Action Group, Cambridge, MA** July 2020 - September 2022
Organized and led monthly discussion group; organized climate talks; contributed to development of proposal for formal department Climate Initiative; spearheaded department submissions to MIT Grand Climate Challenges competition.
- Lead, MIT Media Lab ESG Metrics Analysis, Cambridge, MA** May 2020 - September 2020
Initiated and oversaw ESG metrics analysis for the MIT Media Lab; helped develop project vision, source and analyze data.
- Co-Founder, MIT Media Lab Air Travel Carbon Offsets Program, Cambridge, MA** May 2019 - January 2020
Led a team in designing, executing, and securing funding for a program to track and offset the Lab's air travel emissions.
- Co-President, MIT Transportation Club, Cambridge, MA** June 2015 - June 2016
Disseminated information about transit-related events and jobs; oversaw speaker series, conference, and research showcase.

INDUSTRY EXPERIENCE

- ESG Reporting Consultant, Generate Capital, San Francisco, CA (remote)** February 2021 - September 2021
Helped develop Generate's first ESG report by selecting metrics, sourcing and analyzing portfolio-wide operational data, and conducting sector research.
- Pear Fellow, Pear Ventures, Palo Alto, CA (remote)** February 2017 - October 2019
Led MIT team in sourcing Boston-area start-ups, performing investment diligence, and planning campus events.
- Software Engineer, Fitbit, Boston, MA** August 2014 - April 2015
Refactored and automated the back-end messaging protocols used to coordinate Fitbit's logistics and supply chain.

AWARDS & HONORS

- D.E. Shaw Exploration Fellowship** August 2019
One of forty female graduate students selected to take part in a one-week introductory algorithmic finance program.
- MIT Graduate Women of Excellence** April 2017
One of fifty female graduate students honored biennially for research, leadership, and service contributions to MIT.
- NSF Graduate Research Fellowship - Honorable Mention** March 2017
National academic achievement awarded to recognize potential to conduct research of scientific and societal merit.
- Fulbright Student Research Fellowship** September 2013 - June 2014
Fully funded, highly competitive national grant awarded for independent research project on Dutch bicycle commuting.