Jeremy B. Green

Curriculum Vitae

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Environmental scientist passionate about community-led conservation in hands-on, multidisciplinary, and collaborative contexts. I love using my creative problem-solving and quantitative analysis skills to improve the relationship between people and nature, and I work diligently to ensure everyone can enjoy the beauty of their surroundings. Seeking to continue developing wide-ranging skills, knowledge, and experience while contributing to collaborative and impactful environmental initiatives in the Greater Boston area.

EDUCATION:

Northeastern University (2021-2025)

B.S. in Environmental and Sustainability Sciences, Concentration in Conservation, Restoration, and Management

Honors & Awards

- Graduated *summa cum laude* (3.99 GPA), College of Science Dean's List in 6/6 eligible semesters
- Highest honors distinction from university honors program and Dept. of Marine & Environmental Science
- Inducted into Huntington 100 recognizing most influential seniors (Fall 2024)
- PEAK Summit Award of $1560 in support of senior thesis research project (Fall 2024)
- Overall Excellence in Marine and Environmental Sciences, recognizing outstanding achievement in academics, teaching assistantship contributions, research, co-op, and service to the department

Coursework

Ecology; Sustainable Development; Geographic Information Systems; Biostatistics; Dynamic Earth; Evolution; Environmental Geochemistry; Conservation Biology; Landscape and Restoration Ecology; Wetlands; Sustainability; Political Economy of Natural Resource Management; Ecosystems Ecology; Ecosystem-Based Management; Environmental Issues, Communication, & Media

Extracurricular Activities

- Terra Society (*Environmental education and engagement organization* -- Secretary 23-24, President 24-25)
- NU Stage Musical Theater Company (Pit Coordinator 23-24)
- Pep Band

International Experiences

- Pembroke Summer Programme -- Pembroke College, Cambridge University (Summer 2023)
- Japanese Food, Culture and Writing: From Farm to Page -- Dialogue of Civilizations (Summer 2024)

EMPLOYMENT HISTORY:

Sep 2025 – Jul 2026 — **Charles River Conservancy – *Land Stewardship Coordinator (TerraCorps Service Member)***

- Collaborate on weekly volunteer events, engaging approximately 2,000 total volunteers in litter cleanup, invasive species removal, and other park maintenance
- Complete three capacity-building projects: developing an organizational tree care plan; improving record-keeping and impact assessment with GIS; and optimizing volunteer participation in wetland restoration
- Organize 27th Annual Earth Day Charles River Cleanup, working with peer organizations to build awareness, raise funds, and maximize impact of over 700 volunteers participating in litter cleanup

Jan 2024 – Jun 2024 — **Charles River Watershed Association - *Watershed and Stormwater Co-op***

- Supported municipal green stormwater infrastructure planning, including by developing and using a novel workflow in GIS and RStudio to calculate phosphorus loads and identify high-impact project sites
- Created maps, images, slideshows and technical reports describing past progress and future goals relating to municipal stormwater projects funded by state grants
- Collaborated on the review of 25 municipal phosphorus control plans and the development of a peer learning workshop to deliver important lessons for future stormwater regulation and management
- Analyzed regional demographics and environmental hazard data to identify priority populations for equitable development of future resilience projects and presented findings to representatives from 28 cities and towns

Fall 2023, Spring 2025 — **Northeastern University Dept. of Marine and Env. Sci – *GIS Teaching Assistant***

- Supervised weekly 3-hour lab section of 20 students, including introducing the assigned project and answering questions
- Ensured smooth logistics by testing weekly assignments, maintaining Canvas page, and grading student submissions

Jan 2023 – Jun 2023 — **Bellono Lab (Harvard University) - *Animal Technician (co-op)***

- Provided daily feeding, water quality checks, and maintenance for 11 diverse marine organism habitat systems
- Planned and performed sensory ecology experiments involving octopuses and piranhas; analyzed data using R

May 2022 – Aug 2022 **Town of Dennis, MA – *Natural Resource Officer***
- Protected 20-30 breeding pairs of endangered piping plovers by monitoring beaches
- Patrolled 100-acre Crowes Pasture conservation area, enforcing rules for hundreds of daily visitors
- Responded to approximately 2 injured animal calls per week to capture and transport animals to local wildlife rehabilitation centers
- Performed aquaculture tasks including growing, cleaning, sorting and propagating shellfish for future public recreational harvesting

Aug 2019 **Chatham Conservation Foundation – *Volunteer Intern***
- Mapped conservation land using ArcGIS and refined total acreage of foundation's protected land to 829 acres, including 359 acres of wetland
- Prepared and presented a formal report for board of trustees summarizing protected wetland areas
- Collected water samples and analyzed water quality parameters in the field for citizen science program

RESEARCH AND PUBLICATIONS:

Spring 2026 Rome, M., **Green, J.,** Con, A., & Downes, S. (2026). Impervious growth outpaces stormwater control measures in the Charles River watershed. *Journal of the New England Water Environment Association, 60*(1), 18–24. https://www.newea.org/wp-content/uploads/2026/03/NEWEA-JOURNAL_Spr26-1.pdf

- Report published in quarterly industry journal, building on work begun during 2024 co-op term
- Analyzed updated land-use/land-cover mapping with novel streamlined workflow to estimate >17,000 lbs/year of additional phosphorus loading from creation of new impervious surfaces
- Reviewed municipal stormwater control implementation and planning, finding that <20% of new phosphorus loading has been effectively offset
- Aggregated quantitative and qualitative data to identify key trends, opportunities, and anticipated costs of future stormwater control measures to mitigate increased nutrient loading

Sep 2024 – May 2024 **Assessing Wetland Influence on Nutrient Concentrations in the Charles River Watershed** || *Honors Thesis in Environmental and Sustainability Sciences* || *Advisor: Dr. Benjamin Dittbrenner*
- Analyzed historic water quality data using RStudio and ArcGIS to evaluate spatial and temporal trends in nutrient concentrations relative to wetland prevalence in drainage areas
- Completed field study with sampling of a suburban wetland stream to evaluate upstream versus downstream differences in Total Phosphorus concentrations
- Independently designed project with deliverables including thesis manuscript, poster presentation at RISE Expo, and public defense

Sep 2022 – Dec 2022 **Building trust through stakeholder participation in fisheries management: a comparison of three leading approaches** || *Directed Study / Research Assistant* || *Advisor: Dr. Jonathan Grabowski*
- Designed and completed independent literature review covering the pros and cons of different forms of participatory and collaborative fisheries management
- Participated in ongoing lab projects, including identifying species from field samples and setting up mesocosm experiment habitats for fish and crustaceans

SKILLS & PROFICIENCIES

GIS
- Extensive experience with ArcGIS Pro & Online and various geoprocessing tools
- Comfortable working with multiple forms of data and creating high-quality maps tailored to different end uses
- Advanced understanding of ArcGIS data structures and workflows for project management

Communication & Collaboration
- Skilled at synthesizing complex information for varied audiences in many formats, from reports to newsletters
- Passionate about connecting with community members to understand different perspectives
- Fluent in Spanish (spoken and written)
- Strong time management and attention to detail when working independently or in interdisciplinary teams

Data/Field/Lab
- Proficient at data management, statistical analysis and visualization in R and Excel
- Creative with approaches to complex problem-solving, including designing quantitative workflows
- Familiar with the ecology of coastal New England, including endangered and invasive species
- Proficient with hand and small power tools for trail and facility maintenance and invasive species removal
- Experienced with soil and water quality sampling and analysis including wetland delineation