

Brian McElroy Froeb

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Education

August 2018 – May 2020

Tufts University, Medford MA - *Master of Arts in Urban and Environmental Policy and Planning.*

- Course work in Geographic Information Systems, Housing Policy, Sustainable Development, Climate Change and Renewable Energy, and Economics.
- Additional course work in Statistical Modeling and Data Analysis/Visualization, including research into Housing, Urban Geography, Suitability Analysis, Remote Sensing and Cartography
- Graduate Certificate in Geographic Information Systems
- Overall GPA 3.91
- Thesis on the impact of new development on residential mobility including displacement and eviction.
- Field project on the impacts of Solar Development on the town of Athol, MA. Provided a model solar zoning bylaw.

August 2012 - May 2016

Appalachian State University, Boone NC - *Bachelor of Science in Psychology.*

- Concentrations in decision making, social psychology, and sociology
- Graduated Summa Cum Laude
- Overall GPA 3.93, Major GPA 3.90
- Dean's List 8 Semesters, Chancellor's List 7 Semesters
- Honors thesis on the intersection of Sustainable Decision Making, Psycholinguistics, and Pro-Environmental Behaviors

Experience

September 2019 - May 2020

Tufts University, Medford, MA – *Teaching Assistant*

- Aided with the instruction of two courses Introduction to GIS and Spatial Statistics.
- Assisted with grading, lesson planning, and instruction, specifically giving lectures on Data Management best practices, R scripting and coding, and cartography essentials.
- Additionally, provided individual support with students' research projects, assisting in research design, data collection and cleaning, and presentation.

June 2019 - January 2020

Boston Tax Help Coalition, Boston, MA – *Data Management and Reporting Intern*

- Responsible for the management and reporting of the Boston Tax Help Coalition's data from the 2019 tax season, including completing an analysis used in support of Massachusetts House Bill H.2439.

- Designed automated data collection protocols of tax return data and lead a team that compiled credit report and credit counseling data.
- Additionally, designed a protocol to geocode and anonymize all BTHC data to allow for its use in research while protecting personally identifiable information.

June 2020- September 2020

Center for Health and Environmental Justice, Falls Church, VA – Science and Technical Intern

- Remote GIS analyst on a water quality project focusing on the Missouri River in South Dakota.
- Responsible for the identification, collection, and cleaning of important data sets related to pollution in the region.
- Managed data through an ArcGIS webserver.

September 2018 – May 2019

Tufts University, Medford, MA – Graduate Research Assistant

- Assisting in the development of Tufts' Masters in Sustainability Program, housed with the Urban and Environmental Policy and Planning Department
- Evaluated Tufts' program and course offerings as they compare to other Sustainability Programs, including Masters of Sustainability, MBAs with a sustainability focus, and Master of Environmental Science

August 2014 -May 2016

Appalachian State University, Boone, NC - Tutoring Center Manager

- Responsible for the management of the Tutoring Center, including hiring new tutors as necessary, creating tutor's schedules, and managing tutor's payrolls.
- Also tutored students individually and in small groups in Psychology, Research Methods, and Statistics
- Consulted with students as part of the Interdisciplinary Studies Program, tutoring students in classes with no subject specific tutor as well as helping students develop better time management practices and study skills.

Skills

- Proficient in Following Software:
 - R and RStudio, ArcMap and ArcGIS, ENVI, GeoDa, Stata, SPSS, Access, SQL, Adobe InDesign, Google Docs, and Microsoft Office Suite.
 - Working Knowledge of Python, arc.py, QGIS, and Jupyter Notebook
- Research:
 - Research Design, data analysis including geospatial analysis, qualitative and quantitative analysis, survey design, and data collection and preparation.
- Communication:
 - Technical and report writing, web, poster, and presentation design, and public speaking.

Awards

- Nominated for Massachusetts Planning Association's Student Planning Award, 2020
- University and Departmental Honors, Awarded 2016
- Eagle Scout, Awarded 2011

