

Joseph Campbell Hilleary

[LinkedIn](#) | [GitHub](#)

Education

Tufts University Medford, MA 2022-2024
MS, Computer Science (Thesis with Highest Honors)
Advisor: Gregory Crane
Data-Driven Decision-Making Fellow (NSF Research Trainee)

Bowdoin College Brunswick, ME 2016-2020
AB, History, Minor in Mathematics (*cum laude* with departmental honors)

Professional and Research Experience

Massachusetts Bay Transportation Authority (OpsAnalytics) Boston, MA
Data Analyst 2024-Present

The Perseus Project Medford, MA
Research Assistant 2023 -2024

Tufts Data Intensive Studies Center Medford, MA
Research Intern 2022 - 2023

Eckerson Group Hingham, MA (Remote)
Senior Research Analyst 2022
Research Analyst 2020-2021

Osher Map Library Portland, ME
Digital Humanities Intern 2021 - 2022

Publications

Facilitating Language Hacking with Digital Tools: A Study of Translation Alignment
Master's Thesis in Computer Science 2024
Committee Members: Gregory Crane, Remco Chang, Chiara Palladino
Highest Honors

Traders and Troublemakers: Sovereignty in Southern Morocco at the End of the 19th Century
Undergraduate Honors Thesis in History 2020
Committee Members: David Gordon (Chair), Pamela Klasova, Leah Zuo, Salar Mohandesi
Sherman David Spector of the Class of 1950 Award

Presentations

Fare Engagement Mobile Check-ins

Joseph Hilleary, Juan Rivera, Stacia Hunter, Todd Glowac, Luke Beato
Poster, MBTA Innovation Expo

2025

Increasing the Accessibility of the Autobiography of Omar ibn Said through Translation Alignment

Joseph Hilleary
Poster, Greater Boston Digital Research and Pedagogy Symposium

2024

A Roadmap for the Automated Production of Enriched Reading Environments for Historical Arabic Texts

Joseph Hilleary
Talk and Poster, Tufts University Graduate Research Symposium
Best Poster, Runner-up Best Talk

2024

The Tricks of the Trade: Number-Narrative Mismatch in Data Journalism

Harpreet Auby*, Adam Eichenwald*, Kyle Heuton*, *Joseph Hilleary**, Bridget Moynihan*, Nick Rabb*, Ghazal Shabestanipour*, Shafiqul Islam, Remco Chang
Talk, Data Intensive Studies Center & Tufts Institute for AI Symposium

2023

*Equal contribution

Suspicious Behavior at the Lekagul Preserve: 2017 VAST Mini-Challenge

Joseph Hilleary, Nirmiti Naik*, Gabriel Sessions**
Talk, Tufts University CS 178 Visual Analytics Final Project
Best Presentation (Peer Award)
*Equal contribution

Spring 2023

Teaching

Tufts CS 150-DPS Data and Power: Surveillance

Teaching Assistant, Professor: *Nicholas Rabb*

Fall 2023

Tufts UEP 239 Geospatial Programming with Python

Teaching Assistant, Professor: *Aggeliki Barberopoulou*

Spring 2023

Portland Adult Education

English Tutor
Classroom aide

Fall 2020-Summer 2021

Fall 2019

Bowdoin Writing Project

Head Writing Assistant
Writing Assistant

Fall 2019 - Spring 2020

Fall 2017 - Spring 2019

Bowdoin Center for Teaching and Learning

Arabic Tutor

Fall 2019-Spring 2020

Academic Awards and Grants

National Science Foundation Research Traineeship
Sherman David Spector of the Class of 1950 Award
Large Paul Nyhus Travel Grant
Critical Language Scholar
Boren Scholar
Bowdoin Book Award
Sarah and James Bowdoin Scholar
Bowdoin Faculty Scholar
Society for Industrial and Applied Mathematics
National Merit Scholar

Service

EAAMO Urban Data Science & Equitable Cities Working Group 2025
Contributor

Information+ Conference 2025
Program Committee

Interdisciplinary Research in Technology & Society Symposium 2024
Conference Co-Chair