

# Joseph Campbell Hilleary

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

## Education

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<b>Tufts University</b> Medford, MA MS, Computer Science (Thesis with Highest Honors) Advisor: Gregory Crane <i>Data-Driven Decision-Making Fellow (NSF Research Trainee)</i>	2022-2024
<b>Bowdoin College</b> Brunswick, ME AB, History, Minor in Mathematics ( <i>cum laude</i> with departmental honors)	2016-2020

## Professional and Research Experience

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<b>Massachusetts Bay Transportation Authority (OpsAnalytics)</b> Data Analyst	<i>Boston, MA</i> 2024-Present
<b>The Perseus Project</b> Research Assistant	<i>Medford, MA</i> 2023 –2024
<b>Tufts Data Intensive Studies Center</b> Research Intern	<i>Medford, MA</i> 2022 - 2023
<b>Eckerson Group</b> Senior Research Analyst Research Analyst	<i>Hingham, MA (Remote)</i> 2022 2020-2021
<b>Osher Map Library</b> Digital Humanities Intern	<i>Portland, ME</i> 2021 - 2022

## Publications

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<b>Facilitating Language Hacking with Digital Tools: A Study of Translation Alignment</b> <i>Master's Thesis in Computer Science</i> Committee Members: Gregory Crane, Remco Chang, Chiara Palladino <i>Highest Honors</i>	2024
<b>Traders and Troublemakers: Sovereignty in Southern Morocco at the End of the 19th Century</b> <i>Undergraduate Honors Thesis in History</i> Committee Members: David Gordon (Chair), Pamela Klasova, Leah Zuo, Salar Mohandesi <i>Sherman David Spector of the Class of 1950 Award</i>	2020

## Presentations

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**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

2024

*Best Poster, Runner-up Best Talk*

**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

Spring 2023

*Best Presentation (Peer Award)*

\*Equal contribution

## Teaching

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**Tufts CS 150-DPS Data and Power: Surveillance**

Fall 2023

Teaching Assistant, *Professor: Nicholas Rabb*

**Tufts UEP 239 Geospatial Programming with Python**

Spring 2023

Teaching Assistant, *Professor: Aggeliki Barberopoulou*

**Portland Adult Education**

English Tutor

Fall 2020-Summer 2021

Classroom aide

Fall 2019

**Bowdoin Writing Project**

Head Writing Assistant

Fall 2019 - Spring 2020

Writing Assistant

Fall 2017 - Spring 2019

**Bowdoin Center for Teaching and Learning**

Arabic Tutor

Fall 2019-Spring 2020

## Academic Awards and Grants

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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

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<b>EAAMO Urban Data Science &amp; Equitable Cities Working Group</b> Contributor	2025
<b>Information+ Conference</b> Program Committee	2025
<b>Interdisciplinary Research in Technology &amp; Society Symposium</b> Conference Co-Chair	2024