

DALIT HENDEL

Data Analytics student seeking Summer 2022 RA position



EDUCATION

2021–
Current

Tufts University

MS Candidate in Data Analytics

Medford, MA

2013–
2017

Northwestern University

B.A. in Economics B.A. in Cognitive Science

Evanston, IL



RESEARCH EXPERIENCE

2019–
2021

Senior Research Coordinator at the Center for Applied Brain and Cognitive Sciences

Tufts University

Medford, MA

Organized, managed, recruited, and ran over 700 human subjects through experimental procedures on various spatial navigation paradigms utilizing virtual reality and EEG

Collected, collated, and completed statistical analysis of human subject data using Python and Excel



SELECTED PROJECT EXPERIENCE

December
2021

DATA-200 Foundations of Data Analytics

Tufts University

Medford, MA

- Deployed a project comparing the average global land temperature from the years 1970-2000 and the year 2020.
- Used the model to predict which other factors were associated with the largest temperature changes.

December
2021

ENV-170 Environmental Data Visualization

Tufts University

Medford, MA

- Combined CSV and Raster data to visualize the distribution of harmful Air Quality Index (AQI) levels and asthma levels across the USA in the years 2003, 2007, and 2011

December
2021

DATA-201 (A and B) Python and Machine Learning

Tufts University

Medford, MA

- Deployed a project which predicted Heart Disease from Healthcare data.
- Ran the model on PCA, kNN, and logistic regression.

CONTACT INFO

✉ Dalit.Hendel@tufts.edu

🐙 github.com/ladalata/

☎ +1 847-630-6781

SKILLS

Performing **data analysis** on environmental data

Data communication

R/Python/SQL/ArcGIS Pro

Machine Learning sense and statistical knowledge

Designing and updating **databases** in pgAdmin

Visualizing vector and raster data on **ArcGIS Pro**

Collaborating with others on analytic projects

Last updated on 2022-05-30.

May
2022

● **DATA-202 (A and B) Introduction to Data Visualization with Tableau and Introduction to Data Management and Databases**

Tufts University

📍 Medford, MA

- Published dashboards from Makeover Monday data sources by visualizing, connecting, and querying data
- Applied relational database concepts to database design
- Communicated with and extracted data from databases

May
2022

● **CS-115 Database Systems**

Tufts University

📍 Medford, MA

- Applied fundamental concepts of database management systems in relational (SQL) databases
- Managed unstructured and semi-structured data using XML, DTD, Java, and mongodb

May
2022

● **UEP-232 Introduction to Geographic Information System (GIS)**

Tufts University

📍 Medford, MA

- Created maps and answered spatial questions by layering a variety of spatially referenced data

May
2022

● **DATA-220 Database Systems**

Tufts University

📍 Medford, MA

- Applied the best practices for successfully communicating data to audiences of varying backgrounds

Currently

● **CS-135 Introduction to Machine Learning**

Tufts University

📍 Medford, MA



SELECTED PRESENTATIONS

December
2021

● **DATA-200 Final Project**

Presented a model for changes in the average global land temperature from the years 1970-2000 and the year 2020, and summarized main results and assumptions of the model to my cohort.

📍 Medford, MA

May
2022

● **UEP-232 Final Project**

Presented ten maps from my vulnerability assessment of Mexico on three risk factors (air quality, water access, and earthquake related deaths) by visualizing the risk level throughout Mexico on these factors and the population affected by them. The project included turning vector data into rasters and reclassifying the data on a scale from 1-6, with six being the highest risk level. All variables were then added together with population density using a raster calculator for the final vulnerability assessment of areas with the greatest population at risk.

📍 Medford, MA



PUBLICATIONS

**Publications
at Center for
Applied
Brain and
Cognitive
Sciences**

• Brunyé, T. T., Smith, A. M., Hendel, D., Gardony, A. L., Martis, S. B., & Taylor, H. A. (2019). Retrieval practice enhances near but not far transfer of spatial memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 46(1), 24–45.

• Gardony, A. L., Hendel, D., & Brunyé, T. T. (2021). Identifying optimal graphical level of detail to support orienting with 3D geo-visualizations. *Spatial Cognition and Computation: An Interdisciplinary Journal*, 22(1), 1–26.

• Brunyé, T. T., Hendel, D., Gardony, A. L., Hussey, E. K., & Taylor, H. A. (2021). Personality traits and spatial skills predict group dynamics and success during collective wayfinding. In D. Montello & K. Curtin (Eds.), *Research Directions in Collective Spatial Cognition*.