

# TOVA PERLMAN

tovaperlman@gmail.com | 612 716 8699 | [Portfolio](#)

## EDUCATION:

**University of Pennsylvania**, Philadelphia, PA  
Masters of Urban Spatial Analytics

May 2021

**Brandeis University**, Waltham, MA

Bachelor of Arts, Summa Cum Laude with highest honors in Art History

May 2018

Major: Art History; Minor: Afro and African American Studies and Near Eastern and Judaic Studies

## RELEVANT COURSES:

Geospatial Data Science, Geospatial Software Design, Public Policy Analytics, Introduction to Housing, Community and Economic Development, Spatial Statistics, Javascript, Remote Sensing, Raster GIS using ArcGIS Pro, Public Finance

## SKILLS:

Computer: R, Python, Google Earth Engine, ArcGIS Pro, ArcMap, Git, SQL, Adobe Premiere, HTML, CSS, Javascript  
Language: Hebrew (proficient)

## RELEVANT EXPERIENCE:

**Fellow, Data Science for Social Good**, Warwick, UK

Jun 2021-Present

- Project Management using Sprint/Agile framework, Scrum and Monday.com
- Using Python to map internet connectivity rates with multiple large vector and raster datasets
- Working on the entire life cycle of a data science project from scoping to deployment

**M.S, Urban Spatial Analytics**, Philadelphia, PA

Sep 2020-May 2021

- Trained in using and manipulating raster data in ArcGIS Pro to do cost-distance analysis, site suitability analysis, and local, focal, and zonal statistics
- Project managed and conducted data analysis in R to predict likelihood of homelessness for the Metro Dallas Homelessness Alliance (MDHA)
- Built web application using Javascript to display homelessness predictions
- Trained in supervised and unsupervised image classification analysis using SVM, Random Forest and deep learning methods with Keras and TensorFlow. Ran many variations of models to achieve accuracy for a Brazilian coffee dataset.
- Built predictive analytic models using R in the housing, policing and business sectors
- Analyzed crowd protest size in 2019 and 2020 using Python with CenPy API
- Used Google Earth Engine to measure saline lake shrinkage over time
- Wrote paper analyzing the spatial dimensions of network strength in low income communities
- Experience and interest in public finance, affordable housing and economic development

**Weizman School Admissions Ambassador**, Philadelphia, PA

Sep 2020-May 2021

- Recruited and spoke with prospective students about MUSA program

**Logistics Support Manager, United Synagogue of Conservative Judaism**, New York, NY

Jan 2019-Aug 2020

- Plan six week bus trips around the continental United States for 100 high school students and staff, negotiating contracts, arranging travel, creating financial reports and code budgets
- Manage event logistics including catering, transportation and hospitality for staff training seminars with 50 people over four days

**Honors Thesis, Brandeis University**, Waltham, MA

Jan-Apr 2018

- Utilized theories of space and place to analyze the role of street art in urban landscapes including New York and Paris
- Produced a 115 page thesis with chapters on history of street art, its practice, and spatial theory, successfully submitted it, earning Summa Cum Laude with highest honors in Art History

**Fellow and Coordinator, Brandeis Bridges** Waltham, MA

Dec 2014-May 2018

- Planned and facilitated Black and Jewish dialogue on campus and through experiential learning in places with historical ties to both communities including the American South, Ghana, Chicago, and Brazil

## PRESENTATIONS:

"Boston Street Art," Presentation, *ESRI Summer Meet-up*, New York, NY

Jul 2018

"DeisTalks: Defining Street Art," Presentation, *Brandeis Admitted Students Day*, Waltham, MA

Apr 2017