**TOVA PERLMAN**

**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, MS Word, Excel, PowerPoint, Internet literate, Adobe Premiere, Filemaker, HTML, CSS,

Language: Hebrew (proficient)

**RELEVANT EXPERIENCE:**

**M.S, Urban Spatial Analytics,** Philadelphia, PA Sep 2020-May 2021

* Built predictive analytic models (logistic, OLS, Poisson Regressions) 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
* 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
* Wrote paper analyzing the spatial dimensions of network strength in low income communities
* 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.
* Trained in using and manipulating raster data in ArcGIS Pro to do cost-distance analysis, site suitability analysis, and local, focal, and zonal statistics
* Experience and interest in public finance, affordable housing and economic development

**Weizman School Admissions Ambassador**, Philadelphia, PA Sep 2020-Present

* Recruited and spoke with prospective students about MUSA program

**Logistics Support Manager, United Synagogue of Conservative Judaism,** New York, NY Jan 2019-Present

* 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
* Raised $45,000 through applying to grants and reaching out to donors
* Collaborated with Brandeis administration to design course curriculum about Black-Jewish dialogue

**PRESENTATIONS:**

“Boston Street Art,” Presentation, *ESRI Summer Meet-up,* New York, NYJul 2018

“DeisTalks: Defining Street Art,” Presentation, *Brandeis Admitted Students Day,* Waltham, MAApr 2017