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simonkassel.com

# Simon Kassel

## Master of City Planning Candidate

### Education

Expected 05/2017

#### Master of City Planning (Smart Cities concentration)

University of Pennsylvania; Philadelphia, PA

##### Relevant coursework:

- Geospatial Software Design
- Spatial Analysis for Urban Planning
- Land-Use and Environmental Modeling
- Data Wrangling and Visualization
- Statistical and Data Mining Methods for Urban Data Analysis

##### Extracurricular:

- Teaching Assistant for graduate-level courses: Spatial Analysis for Urban and Environmental Planning (Fall '16), Advanced Topics in GIS (Spring '17)
- Presented coursework ("Predictive Flood Inundation Modeling in Calgary, Alberta") at 2016 Esri User Conference

05/2011

#### Bachelor of Arts in Political Science

Macalester College; St. Paul, MN

### Work Experience

05/2016 - 09/2016

#### Freelance Data Analyst

Urban Spatial; Philadelphia, PA

- Collaborate on machine learning model to predict endogenous gentrification
- Write R scripts automating land use data visualizations for U.N. project

06/2016 - 08/2016

#### Data Analysis and Planning Intern

Philadelphia Water Department; Philadelphia, PA

- Develop predictive model for stormwater management project development
- Create replicable scripts in R and Python for PWD to create future planning tools

01/2016 - 11/2016

#### GIS Analyst Research Assistant

The Wharton School, University of Pennsylvania; Philadelphia, PA

- Establish a spatial database of road segments from various sources
- Design and a script protocol to automate road width measurements from satellite imagery

03/2014 - 07/2015

#### Field Research Photographer

CoStar Group; Boston, MA

11/2013 - 03/2014

#### Real Estate Research Assistant

Ella Properties; Cambridge, MA

10/2011 - 10/2013

#### Freelance Office Production Assistant

Lionsgate, Pig Newton, Warner Brothers, Radical Media; New York, NY

### Technical Skills

- **R** (data visualization, spatial analysis, data wrangling, web APIs, predictive modeling, Shiny app development, web-scraping)
- **ArcGIS** (spatial analysis in vector and raster formats, automation with Python and ModelBuilder)
- **Interactive Web Mapping** (Carto, Leaflet)
- **Understanding of Machine Learning**
- **Python**
- **JavaScript**
- **Familiarity with HTML/CSS**
- **Understanding of relational databases, SQL, PostgreSQL**
- **Adobe Creative Suite**