

# MELI HARVEY

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## EDUCATION

2015 - 2017  
Cambridge, MA

### **MIT Department of Urban Studies and Planning Master in City Planning**

The Top Thesis Prize: After Retreat: Buyout Programs and Local Planning Goals after Hurricane Sandy

2006 - 2011  
Syracuse, NY

### **Syracuse University School of Architecture Bachelor of Architecture**

Magna Cum Laude

The A.I.A. Henry Adams Medal for the Highest Academic Ranking in the Bachelor of Architecture Program

Citation for Excellence in Thesis Design

## EXPERIENCE

Feb 2020 - Present  
New York, NY

### **Delve at Sidewalk Labs + Google, UX Engineer, Senior Computational Designer**

Owned the geometry generation portion of a product that does feasibility studies for master plans using generative design. Scoped, designed, and implemented computational design features in agile framework using a largely geospatial stack (geopandas, shapely). Became a knowledge center for a large part of the back-end, managed team of 3 computational designers, and collaborated closely with engineering team.

July 2019 - Oct 2019  
New York, NY

### **WeWork Future Cities Group, Senior Computational Designer**

Developed geometry libraries using RhinoCommon and .NET framework. Worked with the engineering and product teams on developing product requirements and infrastructure for web apps.

Spring 2019  
New York, NY

### **Columbia University, GSAPP, Assistant Adjunct Professor**

Taught an elective course on how data analysis can inform urban design and policy. Included technical instruction on data munging, descriptive statistics, and data visualization.

Nov 2017 - June 2019  
New York, NY

### **Kohn Pedersen Fox Architects, Urban Data and Computation Specialist**

Worked on the "Urban Interface" research and computation team building computational tools and performing urban data analysis for architecture and masterplanning projects, developing web apps for both internal use and to provide new data driven service offerings such as computational urban design and site finder tools.

Feb 2016 - June 2017  
Cambridge, MA

### **Civic Data Design Lab, GIS Specialist**

In charge of data collection, processing, and design for a web app analyzing urban lighting with Instagram (with Google VisionAPI), Google Places, etc. (collaboration with Philips Lighting). Designed urban furniture that tracks social activity using wifi sniffers, GPS, and tracking cameras (collaboration with Gehl Institute).

Summer 2016  
New York, NY

### **Regional Plan Association, GIS Specialist**

Used quantitative methods and geospatial data to project future development patterns in metropolitan NYC.

Sept 2015 - Jan 2016  
Cambridge, MA

### **Center for Advanced Urbanism (CAU), Editorial Assistant**

Edited the publication Infinite Suburbia, a tome on suburban studies including 55 contributing authors.

Oct 2012 - Aug 2015  
New York, NY

### **Bjarke Ingels Group, Computational Designer, BIM Lead, Model Shop Manager, Designer**

Worked on projects through every phase of design including a 60 story tower in Calgary, CA, and a 233 unit affordable housing project in Harlem, led the design of algorithmically defined facades, taught Grasshopper and Vray courses.

Nov 2011 - May 2012  
Brooklyn, NY

### **Diana Al Hadid, Digital Fabrication Specialist**

Fabrication specialist doing digital fabrication, made shop drawings, constructed large scale sculptures.

## SKILLS

### **Languages**

Python  
C#  
Javascript

### **Packages**

Vuejs/Angularjs  
threejs  
shapely  
RhinoCommon  
numpy/pandas

### **File Types**

JSON  
GeoJSON  
CSV  
XML  
OBJ

### **Software**

ArcGIS/QGIS  
Rhino/Grasshopper  
Revit  
Adobe CS  
Excel