

# AMELIA 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 Architecture Program,  
Citation for Excellence in Design

## PRACTICE

Feb 2020 - present  
New York, NY

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

Manage a team of 4 UX Engineers developing a generative design product that does feasibility studies for real estate master plans. I scope, design, and implement computational design features in Agile framework using a largely geospatial stack (geopandas, shapely, Mapbox GL JS). Became a knowledge center for a large part of the back-end, worked closely with PM's and the 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.

Nov 2017 - June 2019  
New York, NY

**Kohn Pedersen Fox (KPF) 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.

Oct 2012 - Aug 2015  
New York, NY

**BIG Architects, Computational Designer, BIM Lead, Model Shop Manager**

At Bjarke Ingels Group, I 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  
New York, NY

**Diana al-Hadid, Digital Fabrication Specialist**

Created 3D models for CNC milling, made shop drawings, aided in construction of large-scale sculptures.

## TEACHING / RESEARCH

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.

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).

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.

## SKILLS

### Languages

Python  
C#  
Javascript  
GLSL

### Packages

threejs  
Vuejs  
Shapely  
RhinoCommon

### Software

ArcGIS, QGIS  
Rhino/Grasshopper  
Revit  
Photoshop, Illustrator, Indesign

## SPEAKING

- Nov 8, 2021* **SCNY Urban Tech Summit at Cornell Tech**  
Sidewalk Widths: From Open Data to Open Source
- March 13, 2021* **NYC Open Data Week**  
Sidewalk Widths: From Open Data to Open Source: Workshop
- Oct 21, 2020* **Knight Public Spaces Forum**  
Data Equity for Public Space Panel  
Discussed my open source project Sidewalk Walk Widths relative to data equity.
- April 8, 2019* **simAUD Conference 2019 at Georgia Tech**  
Designing Urban Futures Panel  
Presented the paper How to Generate a Thousand Masterplans with Jason Danforth.
- Feb 16, 2022* **Cornell**  
*June 14, 2022* Lecture: Alternative Practice: Built Environment in Tech
- Sept 22, 2021* **Harvard, GSD**  
*Oct 5 2022* Lecture: Alternative Practice: Built Environment in Tech
- Feb 12, 2020* **Columbia, GSAPP**  
Lecture: Alternative Practice: Built Environment in Tech
- April 16, 2021* **Universidad la Salle, Mexico**  
Lecture: Alternative Practice: Built Environment in Tech

## PRESS

- April 24, 2020* **The New Yorker**, Mapping the Sidewalks of New York City for Social Distancing  
Author Colin Moynihan  
<https://www.newyorker.com/culture/culture-desk/mapping-the-sidewalks-of-new-york-city-for-social-distancing>
- Sept 2020* **2020 NYC Open Data Report**, Sidewalk Widths NYC  
City of New York  
<https://opendata.cityofnewyork.us/projects/sidewalk-widths-nyc/>
- April 27, 2020* **Arch Daily**, New York Map Highlights Sidewalks with Social Distancing Possibilities  
Author Christele Harrouk  
<https://www.archdaily.com/938303/new-york-map-highlights-sidewalks-with-social-distancing-possibilities>
- April 23, 2020* **Curbed**, New York City sidewalks have failed us. Here's how we can fix them.  
Author Caroline Spivak  
<https://ny.curbed.com/2020/4/23/21231798/coronavirus-nyc-sidewalk-widths-pedestrians-biking>
- April 22, 2020* **NBC News**, An urban planner mapped every NYC street, showing it's 'extremely difficult' to maintain social distance  
Author Gwen Aviles  
<https://www.nbcnews.com/news/us-news/urban-planner-mapped-every-nyc-street-showing-it-s-extremely-n1189936>
- April 21, 2020* **The Verge**, A new map shows that you can't maintain social distance on most New York sidewalks  
Author Bijan Stephen  
<https://www.theverge.com/2020/4/21/21229683/covid-19-map-new-york-city-social-distancing-spread-coronavirus>
- Jan 9, 2021* **Hacker News by Y Combinator**, Here is a third party tool that lets you explore your Townscaper creations from a first person view  
Author \_Microf  
<https://news.ycombinator.com/item?id=29404782>

