

Emily Fuhrman

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## Education

### Columbia University Graduate School of Arts & Sciences

2016, MA, Department of English & Comparative Literature (*expected*)

### The College of William & Mary

2010, BA, English, Philosophy, *summa cum laude*

## Employment

### Two Sigma

10 2016 – *Data Visualization & UX Designer*

### Columbia University Graduate School of Architecture, Planning, & Preservation

09 2015 – *Intern, Center for Spatial Research*

One of two graduate interns supported by a grant from the Andrew W. Mellon Foundation. Responsible for co-creating and co-teaching digital labs focused on visualization and mapping, working with faculty to integrate spatial research across the humanities more broadly on campus, and promoting data literacy through GIS workshops and presentations.

### emilyfuhrman.co

03 2015 – 10 2016, *Data Visualization Designer and Developer*

Independent, multidisciplinary practice focused on visualization, mapping, and the design and development of data-driven graphics. Conducted academic research, workshops, and data journalism. Led the design and implementation of web-based interactive features. Select clients: Ace Hotel, Electric Objects, Oscar, Simons Foundation, Viacom.

### Huge

04 2014 – 03 2015, *Data Visualization Analyst*

Owner of new data visualization capability at Huge. Responsible for partnering with analytics, technology, design, and user experience teams to develop visual analytical applications. Worked closely with clients to design visualization concepts for both print and web. Select clients: Google.

### AdFin

04 2012 – 04 2014, *Data Visualization Designer and Developer*

Responsible for designing the user interface of a dynamic analytics visualization terminal, from concept to production. Contributed aesthetic and technical input throughout development life cycle. Implemented static designs and interactive visualization ideas in JavaScript. Acquired strong proficiency building interactive visualizations in D3.js.

### Booz Allen Hamilton

07 2010 – 08 2012, *Consultant, Advanced Analytics*

Responsible for designing and constructing interactive Flash-based data visualization tools. Created mockups and visualization concepts for lifecycle management platform and acquisition dashboard. Acquired self-taught skills in HTML, CSS, and Adobe Creative Suite. Select clients: Air National Guard, U.S. Air Force, U.S. Navy.

### Booz Allen Hamilton

06 2009 – 08 2009, *Intern, Modeling, Simulation, Wargaming, & Analysis*

## Honors and awards

2010	Phi Beta Kappa Prize (William & Mary Department of English)
2009	Phi Beta Kappa Society William & Mary Concerto Competition (First place, piano)
2006	James Monroe Scholar

## Fellowships and research programs

- 2009 James Monroe Scholarship Program: Summer Research Project *Stockholm, Sweden*  
2008 William & Mary University of Cambridge Summer Program *Cambridge, England*

## Talks

- 2016 Columbia University, Lede Program. "Unstable Spaces: Autonomous Data and Graphical Accountability."  
Columbia University, Innovative Teaching Summer Institute (ITSI). "Visualization and Information Design."  
Workshop.  
Open Data Science Conference (ODSC) East. "Data Visualization for Social Good."  
Columbia University, *The Art of Data Visualization*. "An Introduction to the D3.js Library." Workshop.  
Columbia University, *The Art of Data Visualization*. "Encoding Ambiguity: Visualizing Qualitative Relationships  
and Uncertain Values."  
2015 General Assembly NYC. "Data Visualization at Heat Seek." Lecture.  
Columbia University. "Introduction to D3.js." Workshop.  
Columbia University. "Visualizing Geographic Data." Lecture.

## Teaching experience

- 2016 Columbia University, *Teaching assistant*. Mapping for Architecture, Urbanism, & the Humanities (ARCH 6805,  
ARCH 4421). Prof. Juan Francisco Saldarriaga.  
2015 Columbia University, *Teaching assistant*. Borderlands Seminar (HIST 8495). Prof. Manan Ahmed.

## Residencies and commissions

- 2015 Electric Objects EO1 Art Club  
2011 Tokamak Art Residency, Helsinki International Artist Programme *Helsinki, Finland*

## Exhibitions (solo)

- 2016 *Lossless*, Ace Hotel New York, presented by Ace Hotel and Discwoman in conjunction with MoMA PS1

## Exhibitions (group)

- 2016 INTER:CONNECTED, Minneapolis Center for Digital Art  
2015 The Coven Magazine Issue No. 4 + PAOM Virtual Fashion Show and Release Party, Signal Gallery

## Affiliations and research groups

### Columbia University Group for Experimental Methods in the Humanities

*Research Fellow*

## Technical skills and proficiencies

### Languages

jQuery, JavaScript (D3.js, Leaflet), Processing. Working knowledge of: Python, R.

### Markup languages

HTML5, CSS (Sass), Markdown.

### Frameworks

Jekyll.

### Software

Adobe Creative Suite CS6 (Photoshop, Illustrator, InDesign).

**GIS**  
QGIS.