

## Education

New York, NY	<b>Columbia University Graduate School of Arts and Sciences</b>
2016	Master of Arts (MA), Department of English and Comparative Literature
Williamsburg, VA	<b>The College of William &amp; Mary</b>
2010	Bachelor of Arts (BA), English and Philosophy, <i>summa cum laude</i>

## Professional and research positions

New York, NY	<b>Data Visualization &amp; UX Designer</b>
2016 – Current	<b>Two Sigma</b>
New York, NY	<b>Spatial Research Intern</b>
2015 – 2016	<b>Columbia University Graduate School of Architecture, Planning, and Preservation</b> <ul style="list-style-type: none"> <li>– One of two graduate interns supported by a grant from the Andrew W. Mellon Foundation.</li> <li>– Created and conducted Map Club, a weekly hack session focused on exploration, play, and self-education in web-based interactive mapping and visualization.</li> <li>– Worked with faculty to integrate spatial research across the humanities more broadly on campus.</li> <li>– Promoted data literacy through GIS workshops and presentations.</li> </ul>
Brooklyn, NY	<b>Data Visualization Designer and Developer</b>
2015 – 2016	<b>emilyfuhrman.co</b> <ul style="list-style-type: none"> <li>– Independent, multidisciplinary practice focused on the design and development of data-driven graphics.</li> <li>– Designed and developed “Theories of Everything, Mapped,” an interactive visualization representing major topics in physics and the theories put forth to solve them. Generated record-high traffic to the Quanta Magazine website on launch. Featured by WIRED, Scientific American, and Nature Physics.</li> <li>– Commissioned by Electric Objects to create four data-driven animations for the EO1 prototype.</li> <li>– Collaborated with Brooklyn-based creative agency WITCHES on a data-driven clothing line for Print All Over Me.</li> <li>– Select clients: Ace Hotel, Electric Objects, Oscar, Simons Foundation, Viacom.</li> </ul>
Brooklyn, NY	<b>Data Visualization Analyst</b>
2014 – 2015	<b>Huge</b> <ul style="list-style-type: none"> <li>– Owner of new data visualization capability at Huge. Partnered with analytics, technology, design, and user experience teams to develop visual analytical applications.</li> <li>– Led the redesign of Think with Google’s “The Customer Journey to Online Purchase,” an interactive visualization detailing consumer interactions by marketing channel, industry, and geographic location.</li> <li>– Select clients: Google.</li> </ul>
New York, NY	<b>Data Visualization Designer and Developer</b>
2012 – 2014	<b>AdFin</b> <ul style="list-style-type: none"> <li>– Designed the user interface of a dynamic analytics visualization terminal, from concept to production.</li> <li>– Contributed aesthetic and technical input throughout development life cycle.</li> <li>– Implemented static designs and interactive visualization ideas in JavaScript.</li> <li>– Acquired strong proficiency building interactive visualizations in D3.js.</li> </ul>
Arlington, VA	<b>Consultant, Advanced Analytics</b>
2010 – 2012	<b>Booz Allen Hamilton</b>

Arlington, VA    **Intern, Modeling, Simulation, Wargaming, & Analysis**  
2009 – 2009    **Booz Allen Hamilton**

## Academic positions

New York, NY    **Lecturer**  
2017 – Current    **Columbia University School of Professional Studies**  
*Data Visualization & Design (APAN5500)*, graduate-level course.

New York, NY    **Teaching Assistant**  
2016    **Columbia University Graduate School of Architecture, Planning, and Preservation**  
*Mapping for Architecture, Urbanism, and the Humanities (ARCH6805, ARCH4122)*, graduate-level course.

New York, NY    **Teaching Assistant**  
2015    **Columbia University Graduate School of Arts and Sciences**  
*Borderlands Seminar (HIST8495)*, graduate-level course.

New York, NY    **Research Fellow**  
2015    **Columbia University Group for Experimental Methods in the Humanities**

## Fellowships and research programs

2009    **James Monroe Scholarship Program**  
2008    **William & Mary University of Cambridge Summer Program**

## Honors and awards

2010    **Phi Beta Kappa prize**, William & Mary Department of English  
2009    **Phi Beta Kappa Society**  
**William and Mary Concerto Competition (first place, piano)**, William & Mary Department of Music  
2006    **James Monroe Scholar**, The College of William & Mary

## Solo exhibitions

2016    ***Lossless***, Ace Hotel New York (in conjunction with Discwoman and MoMA PS1)

## Technical skills and proficiencies

Languages    jQuery, JavaScript (D3.js, Leaflet), HTML5, Processing. Working knowledge of: Python, R.  
Software     Adobe Creative Suite (Photoshop, Illustrator, InDesign), Sketch, QGIS.  
Frameworks   Jekyll.

## Select speaking engagements

2017    Columbia University, *Joyce in the Digital Age*  
          Data Visualization Summit Boston 2017  
          Harvard University, *Digital Humanities for Caribbean History: A History Design Studio Workshop*  
2016    Columbia University Graduate School of Journalism, *Lede Program*  
          Columbia University Center for Teaching and Learning, *Innovative Teaching Summer Institute (ITSI)*  
          Open Data Science Conference (ODSC) East  
          Columbia University, *The Art of Data Visualization*