

## Education

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

## Professional and Research Positions

New York, NY	<b>Data Visualization and Product 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 and increase GIS literacy on campus.</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>– Generated record-high traffic to Quanta Magazine on launch of "Theories of Everything, Mapped," an interactive visualization of major topics in physics. Featured by WIRED and Scientific American.</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>
Arlington, VA	<b>Consultant, Advanced Analytics</b>
2010 – 2012	<b>Booz Allen Hamilton</b>
Arlington, VA	<b>Intern, Modeling, Simulation, Wargaming, and Analysis</b>
2009	<b>Booz Allen Hamilton</b>

## Academic Positions

New York, NY	<b>Lecturer</b>
2017 – Current	<b>Columbia University School of Professional Studies</b> <i>Data Visualization and Design (APAN5500)</i> , graduate-level course.
New York, NY	<b>Teaching Assistant</b>
2016	<b>Columbia University Graduate School of Architecture, Planning, and Preservation</b> <i>Mapping for Architecture, Urbanism, and the Humanities (ARCH6805, ARCH4122)</i> , graduate-level course.
New York, NY	<b>Teaching Assistant</b>
2015	<b>Columbia University Graduate School of Arts and Sciences</b> <i>Borderlands Seminar (HIST8495)</i> , graduate-level course.
New York, NY	<b>Research Fellow</b>
2015	<b>Columbia University Group for Experimental Methods in the Humanities</b>

## Fellowships and Research Programs

2009	<b>James Monroe Scholarship Program</b>
2008	<b>William and Mary University of Cambridge Summer Program</b>

## Honors and Awards

2010	<b>Phi Beta Kappa Prize</b> , William and Mary Department of English
2009	<b>Phi Beta Kappa Society</b> <b>William and Mary Concerto Competition (First Place)</b> , William and Mary Department of Music
2006	<b>James Monroe Scholar</b> , The College of William and Mary

## Solo Exhibitions

2016	<b><i>Lossless</i></b> , Ace Hotel New York (in conjunction with Discwoman and MoMA PS1)
------	--

## Technical Skills and Proficiencies

Languages	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

- 2018 **NYU Gallatin School of Individualized Study**, *The Poetics of Information*  
**Two Sigma**, *Learning and Development Series*
- 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*

## Publications

- Workshops **Rogowitz, B., Kwon, B.C., & Fuhrman, E.** (2018). "Towards Guidelines and Practices for Teaching Data Visualization."  
Presented at *VisGuides: 2nd Workshop on the Creation, Curation, Critique and Conditioning of Principles and Guidelines in Visualization*, IEEE VIS 2018: Berlin, Germany.

## Reading Groups

- Participant **Arts & Algorithms**, Columbia University

## Other

- Memberships **IEEE**  
**The Long Now Foundation**
- Outdoor **PADI Open Water Diver**