

## 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 &amp; 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 &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     **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	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, <i>The Poetics of Information</i> Two Sigma, <i>Learning and Development Series</i>
2017	Columbia University, <i>Joyce in the Digital Age</i> Data Visualization Summit Boston 2017 Harvard University, <i>Digital Humanities for Caribbean History: A History Design Studio Workshop</i>
2016	Columbia University Graduate School of Journalism, <i>Lede Program</i> Columbia University Center for Teaching and Learning, <i>Innovative Teaching Summer Institute (ITSI)</i> Open Data Science Conference (ODSC) East Columbia University, <i>The Art of Data Visualization</i>

## Publications

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