

Education

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

Professional and Research Positions

New York, NY	Data Visualization and Product Designer
2016 – Current	Two Sigma
New York, NY	Spatial Research Intern
2015 – 2016	Columbia University Graduate School of Architecture, Planning, and Preservation <ul style="list-style-type: none">– One of two graduate interns supported by a grant from the Andrew W. Mellon Foundation.– Created and conducted Map Club, a weekly hack session focused on exploration, play, and self-education in web-based interactive mapping and visualization.– Worked with faculty to integrate spatial research across the humanities more broadly on campus.
Brooklyn, NY	Data Visualization Designer and Developer
2015 – 2016	emilyfuhrman.co <ul style="list-style-type: none">– Independent, multidisciplinary practice focused on the design and development of data-driven graphics.– 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.– Commissioned by Electric Objects to create four data-driven animations for the EO1 prototype.– Collaborated with Brooklyn-based creative agency WITCHES on a data-driven clothing line for Print All Over Me.– Select clients: Ace Hotel, Electric Objects, Oscar, Simons Foundation, Viacom.
Brooklyn, NY	Data Visualization Analyst
2014 – 2015	Huge <ul style="list-style-type: none">– Owner of new data visualization capability at Huge. Partnered with analytics, technology, design, and user experience teams to develop visual analytical applications.– 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.– Select clients: Google.
New York, NY	Data Visualization Designer and Developer
2012 – 2014	AdFin
Arlington, VA	Consultant, Advanced Analytics
2010 – 2012	Booz Allen Hamilton
Arlington, VA	Intern, Modeling, Simulation, Wargaming, and Analysis
2009	Booz Allen Hamilton

Academic Positions

New York, NY	Lecturer
2017 – Current	Columbia University School of Professional Studies <i>Data Visualization & Design (APAN5500)</i> , graduate-level course.
New York, NY	Teaching Assistant
2016	Columbia University Graduate School of Architecture, Planning, and Preservation <i>Mapping for Architecture, Urbanism, and the Humanities (ARCH6805, ARCH4122)</i> , graduate-level course.
New York, NY	Teaching Assistant
2015	Columbia University Graduate School of Arts and Sciences <i>Borderlands Seminar (HIST8495)</i> , 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	<i>Lossless</i> , Ace Hotel New York (in conjunction with Discwoman and MoMA PS1)
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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

- 2019 **Arts & Algorithms**, Columbia University

Certifications

- 2019 **PADI Open Water Diver**