

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 & Mary
2010	Bachelor of Arts (BA) , English and Philosophy, <i>summa cum laude</i>

Professional and research positions

New York, NY	Data Visualization & UX 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.– Promoted data literacy through GIS workshops and presentations.
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.– 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.– 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 <ul style="list-style-type: none">– Designed 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.
Arlington, VA	Consultant, Advanced Analytics
2010 – 2012	Booz Allen Hamilton

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	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). <i>Towards Guidelines and Practices for Teaching Data Visualization</i> . Presented at VisGuides: 2nd Workshop on the Creation, Curation, Critique and Conditioning of Principles and Guidelines in Visualization, IEEE VIS 2018, Berlin, Germany.
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