

**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> Phi Beta Kappa, James Monroe Scholar

**PROFESSIONAL POSITIONS**

2016 – Current	Data Visualization and Product Designer
New York, NY	Two Sigma
2015 – 2016	Spatial Research Intern
New York, NY	Columbia University Graduate School of Architecture, Planning, and Preservation
2015 – 2016	Data Visualization Designer and Developer
Brooklyn, NY	emilyfuhrman.co
2014 – 2015	Data Visualization Analyst
Brooklyn, NY	Huge Inc.
2012 – 2014	Data Visualization Designer and Developer
New York, NY	AdFin
2010 – 2012	Consultant, Advanced Analytics
2009	Intern, Modeling, Simulation, Wargaming, and Analysis
Arlington, VA	Booz Allen Hamilton

**ACADEMIC POSITIONS**

2017 – Current	Lecturer
New York, NY	Columbia University School of Professional Studies APAN 5800 (1 sem.) <i>Storytelling with Data</i> . Graduate-level course. APAN 5500 (5 sem.) <i>Data Visualization and Design</i> . Graduate-level course.
2016	Teaching Assistant
New York, NY	Columbia University Graduate School of Architecture, Planning, and Preservation ARCH 6805/4122 (2 sem.) <i>Mapping for Architecture, Urbanism, and the Humanities</i> . Graduate-level course.

2015 Teaching Assistant  
New York, NY Columbia University Graduate School of Arts and Sciences  
HIST 8495 (1 sem.) *Borderlands Seminar*. Graduate-level seminar.

## FELLOWSHIPS AND RESEARCH PROGRAMS

2015 Research Fellow, Columbia University Group for Experimental Methods in the Humanities  
2009 Grant Recipient, James Monroe Scholar Program  
2008 William and Mary University of Cambridge Summer Program  
2005 Brevard Music Center (BMC) Piano Program  
2004 Boston University Tanglewood Institute (BUTI) Young Artists Piano Program (YAPP)

## HONORS AND AWARDS

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

## SOLO EXHIBITIONS

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

## TECHNICAL PROFICIENCIES

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

## SELECT SPEAKING ENGAGEMENTS

2018 Invited Speaker, "Textual Topographies and Procedural Residue," *The Poetics of Information Symposium*, NYU.  
Invited Speaker, "Introduction to Data Visualization," Learning and Development Series, Two Sigma.  
2017 Invited Speaker, "Visualizing Joyce's *Ulysses*: 'Sirens' as a Graphic Score," *Joyce in the Digital Age*, Columbia University.  
Invited Speaker, "A User-Centered Approach to Data Visualization," Data Visualization Summit 2017, Boston.

- Invited Speaker, "In the Same Boats: Geographic Visualization Considerations," *Digital Humanities for Caribbean History: A History Design Studio Workshop*, Harvard University.
- 2016 Invited Speaker, "Unstable Spaces: Autonomous Data and Graphical Accountability," Lede Program, Columbia University Graduate School of Journalism.
- Invited Speaker, "Visualization and Information Design," Innovative Teaching Summer Institute (ITSI), Columbia University Center for Teaching and Learning.
- Invited Speaker, "Data Visualization for Social Good: The Building Ownership Project," Open Data Science Conference (ODSC) East, Boston.
- Invited Speaker, "Encoding Ambiguity: Visualizing Qualitative Relationships and Uncertain Values," *The Art of Data Visualization*, Columbia University.
- Workshop Leader, "Introduction to D3.js," *The Art of Data Visualization*, Columbia University.

## 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.

## INTERESTS AND QUALIFICATIONS

- Reading Groups Arts & Algorithms, Columbia University
- Memberships IEEE
- The Long Now Foundation
- Outdoor PADI Open Water Certified Diver