
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

2019-	Product Manager
2016-2019	Product Designer
New York, NY	Two Sigma
2014-2015	Data Visualization Analyst
New York, NY	Huge Inc.
2012-2016	Data Visualization Designer and Developer
New York, NY	emilyfuhrman.co
2010-2012	Consultant, Advanced Analytics
2009	Intern
Arlington, VA	Booz Allen Hamilton

ACADEMIC POSITIONS

2020-	Adjunct Assistant Professor, Columbia GSAPP
2017-2020	Lecturer, Columbia University School of Professional Studies (SPS)
2016	Spatial Research Intern, Columbia University Digital Social Science Center (DSSC)
2016	Teaching Assistant, Columbia University Graduate School of Architecture, Planning, and Preservation (GSAPP)
2015	Teaching Assistant, Columbia University Graduate School of Arts and Sciences (GSAS)
New York, NY	Columbia University

HONORS AND AWARDS

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

FELLOWSHIPS AND RESEARCH PROGRAMS

- 2015 Research Fellow, Group for Experimental Methods in Humanistic Research, Columbia University
2008 University of Cambridge Summer Program, The College of William and Mary
2005 Brevard Music Center (BMC) Summer Institute
2004 Young Artists Piano Program (YAPP), Boston University Tanglewood Institute (BUTI)

TEACHING EXPERIENCE

- 2020- ARCH 4122 "Mapping for Architecture, Urbanism, and the Humanities," Columbia GSAPP.
2019 APAN 5800 "Storytelling with Data," Columbia SPS.
2017-2019 APAN 5500 "Data Visualization and Design," Columbia University School of Professional Studies (SPS).
2016 (TA) ARCH 6805/4122 "Mapping for Architecture, Urbanism, and the Humanities," Columbia University Graduate School of Architecture, Planning, and Preservation (GSAPP).
2015 (TA) HIST 8495 "Borderlands Seminar," Columbia University Graduate School of Arts and Sciences (GSAS).

SOLO EXHIBITIONS

- 2016 *Loss/less*, Ace Hotel New York (in conjunction with Discwoman and MoMA PS1), New York, NY

COMMISSIONS AND RESIDENCIES

- 2020 Commission, Two Sigma Ventures, *Ten Years of TSV*, New York, NY
2016 Commission, Electric Objects, *Merula*, Electric Objects EO1 Art Club
2015 Commission, The Coven Magazine x Print All Over Me (PAOM), *The Coven Magazine Issue No. 4 Release Party and PAOM Virtual Fashion Show*, Signal Gallery, Brooklyn, NY
2011 Residency, Helsinki International Artist Programme (HIAP)

SELECT SPEAKING ENGAGEMENTS

- 2019 Invited Speaker, *HUSH Creative Jam*, HUSH Studios.
Guest Lecturer, *Data Visualization Portfolio Development*, Infographics and Data Visualization Design Certificate Program, Parsons The New School.
- 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*, 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 (CTL).
- 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.

TECHNICAL PROFICIENCIES

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

INTERESTS AND QUALIFICATIONS

- Outdoor PADI Open Water Certified Diver