

EDUCATION

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|------------------|---|
| 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

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|----------------|---|
| 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

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| 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 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, 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

SOLO EXHIBITIONS

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

RESIDENCIES

2011 Tokamak Art Residency, Helsinki International Artist Programme (HIAP)

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.

TECHNICAL PROFICIENCIES

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

INTERESTS AND QUALIFICATIONS

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