
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

| | |
|---------------|---|
| 2020 – | Product Manager |
| 2016 – 2020 | Data Visualization and Product Designer |
| New York, NY | Two Sigma |
| 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

| | |
|--------------|---|
| 2020 – | Lecturer, Columbia University 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 |
| 2009 | Grant Recipient, James Monroe Scholars Program, The College of William and Mary |
| 2008 | University of Cambridge Summer Program, The College of William and Mary |
| 2005 | Brevard Music Center (BMC) Piano Program |
| 2004 | Boston University Tanglewood Institute (BUTI) Young Artists Piano Program (YAPP) |

SOLO EXHIBITIONS

- | | |
|------|---|
| 2016 | <i>Lossless</i> , Ace Hotel New York (in conjunction with Discwoman and MoMA PS1) |
|------|---|

COMMISSIONS AND RESIDENCIES

- | | |
|------|--|
| 2016 | Commission, Electric Objects EO1 Art Club, <i>Merula</i> , Digital animation |
| 2015 | Commission, The Coven Magazine x Print All Over Me (PAOM), Printed apparel |
| 2011 | Residency, Helsinki International Artist Programme (HIAP) |

TEACHING EXPERIENCE

- | | |
|------|---|
| 2020 | ARCH 4122 <i>Mapping for Architecture, Urbanism, and the Humanities</i> . Graduate-level course, Columbia University GSAPP. |
| 2019 | APAN 5800 <i>Storytelling with Data</i> . Graduate-level course, Columbia University SPS. APAN 5500 <i>Data Visualization and Design</i> . Graduate-level course, Columbia University SPS. |
| 2018 | APAN 5500 <i>Data Visualization and Design</i> . Graduate-level course, Columbia University SPS. |
| 2017 | APAN 5500 <i>Data Visualization and Design</i> . Graduate-level course, Columbia University School of Professional Studies (SPS). |
| 2016 | (TA) ARCH 6805/4122 <i>Mapping for Architecture, Urbanism, and the Humanities</i> . Graduate-level course, Columbia University Graduate School of Architecture, Planning, and Preservation (GSAPP). |
| 2015 | (TA) HIST 8495 <i>Borderlands Seminar</i> . Graduate-level seminar, Columbia University Graduate School of Arts and Sciences (GSAS). |

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.

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 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.

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

- Outdoor PADI Open Water Certified Diver