
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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|---------------|---|
| 2020- | Product Manager |
| 2016-2019 | Product Designer |
| New York, NY | Two Sigma |
| 2014-2015 | Data Visualization Analyst |
| Brooklyn, NY | Huge |
| 2012-2016 | Data Visualization Designer and Developer |
| Brooklyn, NY | emilyfuhrman.co |
| 2010-2012 | Consultant, Advanced Analytics |
| 2009 | Intern |
| Arlington, VA | Booz Allen Hamilton |

ACADEMIC POSITIONS

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|--------------|---|
| 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
- 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)

SOLO EXHIBITIONS

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

COMMISSIONS AND RESIDENCIES

- 2020 Commission, Two Sigma Ventures, 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 & PAOM Virtual Fashion Show*, Signal Gallery, Brooklyn, NY
- 2011 Residency, Helsinki International Artist Programme (HIAP)

TEACHING EXPERIENCE

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

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 (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