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**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

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**PROFESSIONAL POSITIONS**

2016 –	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

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**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

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## HONORS AND AWARDS

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

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## FELLOWSHIPS AND RESEARCH PROGRAMS

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| 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)            |

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## SOLO EXHIBITIONS

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

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| 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)                    |

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## TEACHING EXPERIENCE

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|------|---|
| 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.<br>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).  |

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## 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.

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## 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.

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## TECHNICAL PROFICIENCIES

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

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## INTERESTS AND QUALIFICATIONS

- Outdoor PADI Open Water Certified Diver