

Emily Fuhrman

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Education

Columbia University

2016, MA, Department of English & Comparative Literature (*expected*)

Northwestern University

2014, MS, Predictive Analytics

The College of William & Mary

2010, BA, English, Philosophy, *summa cum laude*

Employment

emilyfuhrman.co

03 2015 –

Independent, multidisciplinary practice focused on visualization, mapping, and the design and development of data-driven graphics. Past engagements have encompassed academic research, data journalism, workshops, and creative collaboration. Select Clients: Chromat, Columbia University, Simons Foundation.

Huge

04 2014 – 03 2015, *Data Visualization Analyst*

Owner of new data visualization capability at Huge. Responsible for partnering with analytics, technology, design, and user experience teams to develop visual analytical applications. Worked closely with clients to design visualization concepts for both print and web. Select clients: Google.

AdFin

04 2012 – 04 2014, *Data Artist / UX Developer*

Responsible for designing the user interface of a dynamic analytics visualization terminal, from concept to production. Provided aesthetic and technical input on interactive visualizations throughout. Implemented static designs and visualization ideas in JavaScript. Acquired strong proficiency building interactive visualizations in D3.js.

Booz Allen Hamilton

07 2010 – 08 2012, *Advanced Analytics Consultant*

Responsible for designing and constructing interactive Flash-based data visualization tools. Created mockups and visualization concepts for lifecycle management platform and acquisition dashboard. Acquired self-taught skills in HTML, CSS, and Adobe Creative Suite. Select clients: Air National Guard, U.S. Air Force, U.S. Navy.

Booz Allen Hamilton

06 2009 – 08 2009, *Intern: Modeling, Simulation, Wargaming, & Analysis*

Honors and awards

2010	Phi Beta Kappa Prize (William & Mary Department of English)
2009	Phi Beta Kappa Society William & Mary Concerto Competition (First place, piano)
2006	James Monroe Scholar

Fellowships and research programs

2009	James Monroe Scholarship Program: Summer Research Project	<i>Stockholm, Sweden</i>
2008	William & Mary University of Cambridge Summer Program	<i>Cambridge, England</i>

Projects

"Theories of Everything, Mapped" for *Quanta Magazine*

∞ <https://www.quantamagazine.org/20150803-physics-theories-map/>

Interactive visualization of the most difficult questions at the frontier of fundamental physics and the most promising ideas put forth to solve them. Acknowledged and shared by WIRED, Scientific American, and Nature Physics.

Residencies

2011	Tokamak Art Residency, Helsinki International Artist Programme	<i>Helsinki, Finland</i>
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Installations

2015	Signal Gallery, The Coven Magazine Issue No. 4 + PAOM Virtual Fashion Show / Release Party
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Talks

2015	Columbia University Studio@Butler. "Introduction to D3.js." Workshop. Columbia University Digital Social Science Center. "Visualizing Geographic Data." Lecture.
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Collaborations and research groups

Columbia University Group for Experimental Methods in the Humanities

Research Fellow. Collaborative participation in digital humanities efforts incorporating but not limited to interactive mapping, rapid prototyping, and data visualization. Moderators: Manan Ahmed, Alex Gil, & Dennis Tenen.

Teaching experience

HIST G8945, Borderlands Seminar (Prof. Manan Ahmed, S2015, Columbia University)

Teaching assistant. Responsible for guiding and helping students with Leaflet and QGIS.

Technical skills and proficiencies

Languages

jQuery, JavaScript (D3.js), Processing. Working knowledge of: Python, R

Markup languages

HTML5, CSS, Markdown. Working knowledge of: SASS

Frameworks

Jekyll

Software

Adobe Creative Suite CS6 (Photoshop, Illustrator, InDesign)

GIS

Leaflet. Working knowledge of: QGIS

Natural languages

English, native; French, intermediate