Kate Stryker McManus

design | emerging technology | data visualization

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EDUCATION

Carnegie Mellon University
Masters of Human-Computer Interaction
August 2016 - August 2017

The Colorado College
B.A. Computer Science Major, Film Minor
September 2009 - May 2013

NYU School of Professional Studies
Data Visualization Programming Course
October - December 2015

SKILLS

Development
JavaScript (jQuery, d3.js), HTML/CSS,
Processing, Python

Software
Adobe Creative Suite (Illustrator, Premiere,
InDesign, Photoshop, After Effects), Final Cut
Pro, Sketch, Invision

Design
Customer Journey Maps, Storyboarding,
Diagramming, Visioning, Wireframing,
Experience Prototyping

Usability Testing
Heuristic Evaluation, Think-Alouds,
Paper Prototyping

User Research
Interviews, Contextual Inquiry, Competitive
Analysis, Affinity Diagramming, Sequence
Modeling, Surveys, Personas, Scenarios

HONORS & AWARDS

**RijksViz Project accepted to IEEE VIS
Conference as a public installation** *2017*

Mortar Board Honor Society *2013*

Blue Key Honor Society *2013*

Math behind Poker Class Champion *2012*

Selig Fund for Global Study *2011*

Westchester Vic Ridder Scholarship *2009*

EXPERIENCE

NASA MHCI Capstone | Technical Lead
January - August 2017 • Mountain View, CA

Created and user-tested a web application prototype that used transcription, notifications, and a dashboard to address 3 problems experienced by Integration Engineers in the firing room during launch countdown.

Conducted in-depth research with NASA and analogous domains and generated meaningful insights.

Stroz Friedberg | Information Design Specialist
March 2014 - July 2016 • New York, NY

Spearheaded design and early front-end development of CISO Portal, a client-facing dashboard to empower Chief Information Security Officers to evaluate the health of their company's network security. Collaborated with Stroz Friedberg's CISO to produce and iteratively improve 9 meaningful and intuitive dashboard metrics.

Interviewed Evidence Technicians and Digital Forensics experts to understand their antiquated data entry processes for managing client evidence. Designed and developed an internal web application to standardize and automate data entry, which eliminated up to 20 hours/week of manual work for each Evidence Technician.

Created 50+ visualizations to convey complex technical findings to a variety of high-profile clients.

Led company-wide initiative to emphasize strong design in work, as the first internal design employee.

Freelance | Designer & Developer
December 2013 - October 2016 • Pittsburgh, PA

Generated multiple iterations of recruiting brochures for Stroz Friedberg's Marketing and Recruiting teams.

Created illustrations to help explain how to measure the risk associated with information security threats in the latest book by Carl Young, CIO at The Juilliard School:

Young, C. S. (2016). *Information Security Science: Measuring the Vulnerability to Data Compromises*. Cambridge, MA: Elsevier.

Designed and developed 4 websites to effectively showcase work of clients ranging from a tech-start-up's landing page to a Sports Television Director's portfolio.

Montana State University | Computer Science Researcher
Summer 2012 • Bozeman, MT

Introduced 2 algorithms, OddCover and JointOdd-Cover, with theoretical performance guarantees for efficient routing paths in large computer networks and data centers.

Published findings in IEEE GC Workshop 2015:

B. Mumey, S. Shahmohammadi, K. McManus and S. Yaw, "Parity Balancing Path Flow Decomposition and Routing," 2015 IEEE Globecom Workshops (GC Wkshps), San Diego, CA, 2015, pp. 1-6.