Jane Hoffswell

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Education

PhD Candidate (present), **MS Computer Science & Engineering** (2016)
Allen School of Computer Science & Engineering, University of Washington
Advisor: Jeffrey Heer

BS Computer Science (2014)
Harvey Mudd College (HMC)
Advisor: Ben Wiedermann

Recent Employment

2014 - present — **Graduate Research Assistant, University of Washington** — Advisor: Jeffrey Heer
Conducted research on the design and development of new tools and program understanding techniques for interactive visualization design. Conducted interviews with experts to inform new research directions. Performed user evaluations of the proposed systems.

2019 — **Research Intern, Adobe Research** — Advisors: Leo Zhicheng Liu, Wilmot Li
Surveyed common responsive techniques from news visualizations. Conducted interviews with journalists on their existing development practices for responsive visualizations design. Prototyped a new system targeting responsive visualization design.

2018 — **Research Intern, Adobe Research** — Advisor: Leo Zhicheng Liu
Conducted research on the analysis & reuse of tabular data automatically extracted from PDFs for dynamic mobile applications. Applied machine learning techniques to predict table structure. Prototyped and evaluated an interactive system for repairing extraction errors.

2013 — **Undergraduate Research Assistant, Harvey Mudd College** — Advisor: Ben Wiedermann
Modified the UC Santa Barbara JavaScript Abstract Interpreter to output runtime information about the abstract program trace. Implemented a visualization tool to display the results as an interactive graph using D3.js.

Selected Publications

2020 — Techniques for Flexible Responsive Visualization Design. **Best Paper Award (Top 1%)**
Jane Hoffswell, Wilmot Li, and Zhicheng Liu. *CHI 2020*.

2019 — Interactive Repair of Tables Extracted from PDF Documents on Mobile Devices.
Jane Hoffswell and Zhicheng Liu. *CHI 2019*.

2018 — SetCoLa: High-Level Constraints for Graph Layout.
Jane Hoffswell, Alan Borning, Jeffrey Heer. *EuroVis 2018*.

Augmenting Code with In Situ Visualizations to Aid Program Understanding.
Jane Hoffswell, Arvind Satyanarayan, Jeffrey Heer. *CHI 2018*.

2016 — Visual Debugging Techniques for Reactive Data Visualization.
Jane Hoffswell, Arvind Satyanarayan, Jeffrey Heer. *EuroVis 2016*.

Relevant Skills

Coding: JavaScript, Python, HTML/CSS, D3.js, Vega/Vega-Lite
User Research: Semi-Structured Interviews, Surveys, Experimental Design
Leadership: Project Management, Scientific & Technical Writing, Presentations
Tools: Github, Tableau, LaTeX, Keynote, Microsoft Excel, OmniGraffle

For a complete list of previous employment, experience, and publications you may refer to my website or CV.