

Jen Rogers

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RESEARCH FOCUS My research is an articulation between HCI and Visualization. My current work focuses on designing and developing tools to make human-centered processes more transparent and traceable, from human-in-the-loop ML to design studies.

EDUCATION

2017-current **PhD Human Centered Computing**
Scientific Computing and Imaging Institute, University of Utah


2015-2016 **MSc Medical Visualization and Human Anatomy**
Glasgow School of Art & University of Glasgow, With Distinction


2010-2014 **BFA Graphic Design**
Montana State University, Highest Honors



SKILLS


Skill focus: Visualization. Design and development of web-based tools.
Qualitative research: contextual and semi structured interviews, open-coding
Web development: JavaScript, TypeScript, D3.js, React, Flask, Node.js
Programming: Python, (some) Java
Design: Adobe Illustrator, Photoshop, Figma

PROJECTS

2021-current **Trrracer: Tool for Recording a Design-Oriented Research Process**
In collaboration with researcher from Univeristy of Edinburgh, School of Information Science, to facilitate transparency and traceability
 <https://github.com/jrogerthat/trrracer>
Skills applied: Python (NLTK, Gensim, Flask), TypeScript, React, Electron

2020 -2021 **Web-based annotation tool for coronavirus cell-entry animations**
In collaboration with the Animation Lab, School of Medicine, University of Utah and online community of structural biologists, simulators, and molecular animators.
 https://github.com/visdesignlab/coronavirus_annotation  animationlab.utah.edu/cova
Skills applied: requirements gathering, semi-structured interviews, mock-ups (Illustrator), web development (JavaScript, D3.js, HTML5, CSS), Python for image data processing

2019 **Trevo: Visual tool to identify patterns in phylogenetic tree data**
Part of the NSF funded Multinet Graph Project, in collaboration with the University of Idaho and Kitware.
 <https://vdl.sci.utah.edu/Trevo/>  <https://github.com/visdesignlab/Trevo>
Skills applied: requirements gathering, semi-structured and contextual interviews, mock-ups (Illustrator), web development (JavaScript, D3.js, HTML5, CSS), development of interactive audit trail to trace back design study insights to underlying artifacts.

2018 **Composer: Visual cohort comparison tool**
In collaboration with the University of Utah Orthopedic Center.
 <https://github.com/visdesignlab/Composer>
Skills applied: requirements gathering, semi-structured interviews, mock-ups (Illustrator), web development (TypeScript, D3.js, HTML5, CSS), Python for data processing

SELECTED EXPERIENCE

2017 - current **Research Assistant, SCI Institute, University of Utah**
Research in web-based visual applications tailored for biological data at the Scientific Computing and Imaging Institute.

2021 **Intern, Tableau Research**
Worked on traceability for autoML. Devoloped taxonomy to characterize artifacts emergent from this process and prototype to visualize the attributes, dependencies, and histories of these captured artifacts.

SELECTED EXPERIENCE	2020	Publicity and Local Chair BELIV Workshop, IEEE VIS 2020 Assist in the outreach and organization of BELIV workshop at VIS
	2019	Visiting Researcher, Harmon Lab, University of Idaho Worked closely with researchers in comparative evolutionary biology to design and develop a tool for visual analysis of phylogenetic tree data.
	2016	Lab at the Loft, Glasgow School of Art / Digital Health and Care Institute, Experimental hack-a-thon style design workshop to generate ideas for future projects that improve human interaction with assistive healthcare systems in the home.
TEACHING + MENTORSHIP	2018, 2019	Teaching Mentor, University of Utah, Visualization for Data Science (CS 6591). Organized and ran class labs. Designed and built visualization homework projects to teach Javascript and D3.
	2016-2017	Ambassador for Urban Uprising Foundation, Glasgow, UK Mentor and coach for at risk youth from Ayrshire, UK to develop their foundational skills in climbing and progress toward their NIBAS certification. Organized and participated in sea-stack expedition in Northern Scotland to raise money and awareness for the charity.
	*	When I am not coding, I am a climbing coach at the local climbing gym
PEER-REVIEWED PUBLICATIONS	2020	Rogers, J., Patton, A. Harmon, L. Lex, A. Meyer, M Insights From Experiments With Rigor in an EvoBio Design Study IEEE Transactions on Visualization and Computer Graphics (InfoVis)
	2019	Rogers, J., Spina, N., Neese, A., Hess, R., Brodke, D. and Lex, A., 2019. Composer: Visual Cohort Analysis of Patient Outcomes. Applied clinical informatics, 10(02), pp.278-285.
	2018	Rogers, J., Spina, N., Neese, A., Hess, R., Brodke, D. and Lex, A., 2018. Composer: Visual Cohort Analysis of Patient Outcomes Workshop on Visual Analytics in Healthcare at AMIA (VAHC 2018).
SELECTED TALKS + PRESENTATIONS	2021	Speaker, Invited Highlight Talk BioVis@ISMB 2021 Presented work on tRRRace and traceability that came from work "Insights and Experiments with Rigor in an EvoBio Design Study".
	2018	Presenter, Workshop for VAHC 2018, San Francisco, CA, United States VAHC 2018: Visual Analytics in Healthcare Presented work on "Composer" interactive cohort analysis tool developed in collaboration with the Orthopaedic Research Center, University of Utah
	2018	Poster Presenter IEEE VIS 2018, Berlin, Germany Presented poster for interactive cohort analysis tool developed in collaboration with the Orthopaedic Research Center, University of Utah
	2017	Poster Presenter 2017 SIGGRAPH, Los Angeles, California Presented poster for "Constellations of Movement", an interactive iPad application visualizing research in motor imagery decoding for the Center for Cognitive Neuroscience, University of Glasgow.
	2017	Poster Presenter and Student Grant Recipient, 2017 IS&T International Symposium on Electronic Imaging, Burlingame, California Invited to present interactive poster and speak on project developing interactive application to visualize research in motor imagery decoding.
	2016	Invited Speaker Duke of Edinburgh Award Ceremony, Glasgow, UK Invited to speak to the attending body of the Duke of Edinburgh award ceremony on our climbing expedition to raise money and awareness for Urban Uprising Foundation.
HONORS + SCHOLARSHIPS		Student Grant Recipient 2017 IS&T
		Glasgow School of Art Governors International Postgraduate Scholarship, 2015
		Montana State University Freshman Merit Scholarship, 2010