MEG PIRRUNG PhD

SKILLS

ux research
ui/ux design
web app design
graphic design
data visualization
rapid prototyping
wireframing

TOOLS

sketch
principle
adobe suite
d3.js

LANGUAGES

python
R
javascript
html
css
java

AWARDS

NLM Training Grant
2009 : 2015
Sol Siegal Scholarship Program
2005 : 2007

/EXPERIENCE

UI/UX RESEARCH SCIENTIST   2015 : CURRENT

VISUAL ANALYTICS, PACIFIC NORTHWEST NATIONAL LAB

SELECTED PROJECTS & RESPONSIBILITIES

SHARKZOR

HUMAN IN THE LOOP ML FOR USER-DEFINED IMAGE CLASSIFICATION
UX DESIGN
UI DESIGN
BRANDING
USER EVALUATION DESIGN
STAKEHOLDER PRESENTATION
DEMONSTRATION
PUBLICATION

STORYLINES

ABSTRACTION-BASED VISUALIZATION FOR SPACIOTEMPORAL DATA
UX DESIGN
UI DESIGN
USER EVALUATION DESIGN
PUBLICATION

GRADUATE RESEARCH ASSISTANT   2010 : 2015

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

DISSERTATION

EFFECTIVE DATA VISUALIZATION FOR COMMUNICATION AND ANALYSIS OF MICROBIOME DATA

/EDUCATION

PHD   2015
COMPUTATIONAL BIOSCIENCE
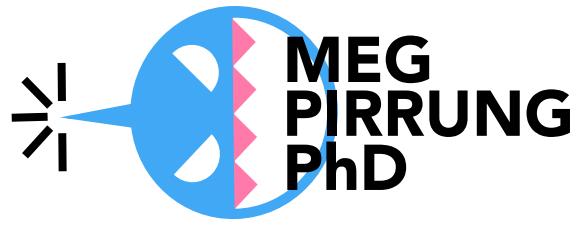
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

BS   2008
COMPUTER SCIENCE

BOWLING GREEN STATE UNIVERSITY

MEGANAP@GMAIL.COM   216.526.8802

/PUBLICATIONS

- SHARKZOR: Human in the Loop ML for User-Defined Image Classification; Pirrung M A, Hilliard N, O'Brien N, Yankov A, Corley C, Hodas N. (IUI 2018)
- Sharkzor: Interactive Deep Learning for Image Triage, Sort and Summary; Pirrung M A, Hilliard N, Yankov A, O'Brien N, Weidert P, Corley C, Hodas N. (arXiv 2018)
- FQC Dashboard: integrates FastQC results into a web-based, interactive, and extensible FASTQ quality control tool; Brown J, Pirrung M A, McCue L. (Bioinformatics 2017)
- Toward a visualization-supported workflow for cyber alert management using threat models and human-centered design; Franklin, L; Pirrung, M A; Blaha, L; Dowling, M; Feng, M. (VizSec Symposium 2017)
- NOUS: Construction and Querying of Dynamic Knowledge Graphs; Choudhury S, Agarwal K, Purohit S, Zhang B, Pirrung M A, Smith W P, Thomas M. (DESWeb 2017)
- Studying Military Community Health, Well-being, and Discourse through the Social Media Lens; Pavalanathan U, Datla V V, Volkova S, Charles-Smith L E, Pirrung M A, Harrison J J, Chappell A R, Corley C D. *Lecture Notes in Computer Science*
- Discourse, Health and Well-being of Military Populations through the Social Media Lens; Pavalanathan U, Datla V V, Volkova S, Charles-Smith L E, Pirrung M A, Harrison J J, Chappell A R, Corley C D. (AAAI 2016)
- NOUS: From Text to Answers via Domain Specialized Knowledge Graphs; Choudhury S, Agarwal K, Purohit S, Pesantez P, Zhang B, Pirrung M A, Praggastis B L. (SIGMOD 2016)
- Explanatory Stream Analysis: Design and Evaluation of an Abstraction-Based Visualization Framework; Arendt D L, Dasgupta A, Pirrung M A, Han K, Scholtz J. (IEEE VAST 2016)
- Getting to the Real Story: Exploring Spatiotemporal Behavior at Multiple Time Scales with Storyline Visualization; Arendt D L, Pirrung M A, Han K. (IEEE VAST 2016)
- Bacteria from Diverse Habitats Colonize and Compete in the Mouse Gut; Seedorf et al. (Cell 2014)
- EMPeror: a tool for visualizing high-throughput microbial community data; Vázquez-Baeza Y, Pirrung M, Gonzalez A, Knight R.(Gigascience 2013)
- Evidence for a persistent microbial seed bank throughout the global ocean; Gibbons SM, Caporaso JG, Pirrung M, Field D, Knight R, Gilbert JA. (Proc Natl Acad Sci 2013)
- TopiaryExplorer: An application for connecting large phylogenetic trees to environmental metadata; Meg Pirrung, Ryan Kennedy, J. Gregory Caporaso, Jesse Stombaugh, Doug Wendel, and Rob Knight (Bioinformatics 2011)
- QIIME allows analysis of high-throughput community sequencing data; Caporaso et al. (Nat Methods 2010)

/PRESENTATIONS

- SHARKZOR: Human in the Loop ML for User-Defined Image Classification; IUI 2018 Demonstration, Tokyo Japan
- Sharkzor: Interactive Deep Learning for Image Triage, Sort and Summary; NIPS 2017 Demonstration, Long Beach CA
- An Analysis Pipeline for Visualizing Behavioral Patterns at Multiple Timescales with Storylines UW Data Science Poster and Networking Session 2016, Seattle, WA
- The Science of Design SEDP Poster Session 2016, Richland, WA
- Visualizing Microbiome Data for Scientific Analysis & Communication IEEEVIS Doctoral Colloquium 2014, Paris, France. talk and poster presentation
- Experimental Determination of Useful and Informative Visualizations of Microbial Ecology Data for Public and Scientific Audiences ROCKY 2013, Snowmass, Colorado. talk and poster presentation
- Experimental Determination of Useful and Informative Visualizations of Microbial Ecology Data for Public and Scientific Audiences BioVis 2013, Atlanta, Georga. poster presentation
- Envobe Open Hardware Summit 2012, NYC, New York. talk
- TopiaryExplorer VIZBI 2011, boston, Massachusetts. poster presentation
- TopiaryExplorer ROCKY 2010, snowmass, Colorado. poster presentation