

Jacob Solomon

801-520-8753
jacobbs@umich.edu
jacobsolomon.net

User experience research and data science to understand users and inform design

Education

PhD, Michigan State University 2015
Media and Information Studies

MSI, University of Michigan 2010
Information Science
Human-Computer Interaction Specialization

BS, University of Utah 2007
Psychology
Certificate in Human Factors Engineering

BA, University of Utah 2007
Russian

Positions

Research Fellow 2015-present
University of Michigan

Research Assistant 2010 - 2015
Michigan State University

Research Associate 2008-2010
University of Michigan

Technical Skills

Programming

Python
R
SQL
Javascript
PHP
HTML/CSS
GIT
Java

Platforms

ggplot
D3
Natural Language Toolkit
web.py
jQuery
SASS
Bootstrap
Unix

Research Skills

Multilevel linear & non-linear regression analysis, non-parametric statistics, cluster analysis, time series
Qualitative UX research (User testing, contextual inquiry, heuristic analysis)
Survey design

Expertise

Experiment Design - Designed, executed, and analyzed 17 experiments to study user behavior and evaluate system designs. Led to award-winning publications and presentations in top human-computer interaction research venues

Data Science - Performed statistical analysis, machine learning, and qualitative analysis of 8 large datasets of user behavior, leading to design recommendations, new hypotheses, publication of results, and grant funding

User Experience Research - Performed user tests, heuristic evaluations, and contextual inquiries to inform iterative design process, develop new features and improve usability

Web Development - Built web apps, prototypes, and innovative infrastructure to facilitate online user research

System Design - Worked in interdisciplinary teams of designers, researchers, and engineers to create 10+ apps and systems

Research Communication - Authored 30+ papers and technical reports of user research. Made 15+ presentations at conferences and academic organizations

Domain expertise in healthcare technology, medical decision making, decision support and recommender systems, crowdfunding, online communities, and computer-mediated communication

Other Notes

- Mentored 3 students in user research projects, leading to publications of results
- Fluent in English and Russian