

Education

- 2015 **PhD, Media and Information Studies**
Michigan State University
Advisor: Rick Wash
Committee: Gary Hsieh, Joshua Introne, Wei Peng, Emilee Rader, Joseph B. Walther
- 2010 **MSI, Human-Computer Interaction**
University of Michigan
Advisor: Mark Newman
Committee: Stephanie Teasley
- 2007 **BS, Psychology**
University of Utah
Certificate in Human Factors Engineering
- 2007 **BA, Russian**
University of Utah

Positions

Research Positions

- 2017 - Present **Senior Design Researcher**
athenahealth
Metrics and Insights Team

2015 - 2017 **Postdoctoral Fellow in Decision Sciences**
University of Michigan Medical School
Center for Bioethics and Social Sciences in Medicine
Mentor: Brian Zikmund-Fisher

2010 - 2015 **Graduate Research Assistant**
Michigan State University
Behavior, Information, Technology Lab

2010 **Research Associate**
University of Michigan
Comprehensive Cancer Center

2008 - 2009 **Research Associate**
University of Michigan Medical School
Open.Michigan

2008 **Research Associate**
University of Michigan Library
Usability Working Group

Teaching Position

2008 - 2009 **Graduate Student Instructor**
University of Michigan
Department of Slavic Languages and Literatures

Publications

Theses

2015 Decision Biases in User Agreement with Intelligent Decision Aids
Doctoral Dissertation
Michigan State University

2010 **Real-Time Text and IM**

Master's Thesis

University of Michigan

Peer-reviewed publications

Note. Proceedings papers in the top HCI conferences such as CHI and CSCW are rigorously peer-reviewed and have the most prestige and impact in the field.

2016 p.13 **Graphics Help Patients Distinguish Between Urgent and Non-Urgent Deviations in Laboratory Test Results**

Brian J. Zikmund-Fisher, Aaron M. Scherer, Holly O. Witteman, **Jacob Solomon**, Nicole L. Exe, Beth A. Tarini, Angela Fagerlin

Journal of the American Medical Informatics Association

2016 p.12 **Heterogeneity in Customization of Recommender Systems Among Users with Homogenous Preferences**

Jacob Solomon

Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI) [23% acceptance rate]

2016 p.11 **Highly Successful Projects Inhibit Coordination on Crowdfunding Sites**

Jacob Solomon, Wenjuan Ma, Rick Wash

Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI) [23% acceptance rate]

2016 p.10 **Is This Good or Bad? Redesigning Visual Displays of Medical Test Results in Patient Portals to Provide Context and Meaning**

Jacob Solomon, Aaron M. Scherer, Nicole L. Exe, Holly O. Witteman, Angela Fagerlin, Brian J. Zikmund-Fisher

Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI) [43% acceptance rate]

2015 p.9 **Don't Wait! How Timing Affects Coordination of Crowdfunding Donations**

Jacob Solomon, Wenjuan Ma, Rick Wash

Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) [28% acceptance rate]

- 2015 p.8 **Factors Related to Privacy Concerns and Protection Behaviors Regarding Behavioral Advertising**
Donghee Yvette Wohn, **Jacob Solomon**, Dan Sarkar, Kami Vaniea
Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI) [43% acceptance rate]
- 2014 p.7 **Customization Bias in Decision Support Systems**
Jacob Solomon
Proceedings of the 32nd Annual ACM Conference on Human Factors in Computing Systems (CHI) [23% acceptance rate]
- 2014 p.6 **Coordinating Donors on Crowdfunding Sites**
Rick Wash, **Jacob Solomon**
Proceedings of the 17th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) [27% acceptance rate]
Best Paper Honorable Mention
- 2014 p.5 **Critical Mass of What? Exploring Community Growth of WikiProjects**
Jacob Solomon, Rick Wash
Proceedings of the 8th International AAAI Conference on Weblogs and Social Media (ICWSM) [23% acceptance rate]
- 2014 p.4 **Human-*What* Interaction? Understanding User Source Orientation**
Jacob Solomon, Rick Wash
Proceedings of Human Factors and Ergonomics Society Annual Meeting 58(1) 422-426
Best Paper Nominee
- 2012 p.3 **Bootstrapping Wikis: Developing Critical Mass in a Fledgling Community by Seeding Content**
Jacob Solomon, Rick Wash
Proceedings of the 15th ACM Conference on Computer Supported Cooperative Work [40% acceptance rate]
- 2010 p.2 **Speaking Through Text: The Influence of Real-Time Text on Discourse and Usability in IM**
Jacob Solomon, Mark Newman, Stephanie Teasley
Proceedings of the 16th ACM International Conference on Supporting Group Work (GROUP) [36% acceptance rate]

2007 p.1 **Digital Photo Kiosk Evaluation**
Jacob Solomon, Frank A. Drews
Human Factors and Ergonomics Society Annual Meeting 51(5) 484 - 488

Conference Abstracts (lightly peer-reviewed)

2017 c.7 **Enhancing Personal Health Informatics Through App Integration and End-User Programming of Automated Tasks**
Jacob Solomon
Workshop on Interactive Systems in Healthcare

2016 c.6 **Improving Understanding of Test Results by Substituting (Not Adding) Goal Ranges**
Aaron M. Scherer, Holly O. Witteman, **Jacob Solomon**, Nicole L. Exe, Angela Fagerlin, Brian J. Zikmund-Fisher
Society for Medical Decision Making Annual North American Meeting

2016 c.5 **Providing Harm Anchors in Visual Displays of Test Results Mitigates Patient Concern About Nearly Normal Values**
Brian J. Zikmund-Fisher, Aaron M. Scherer, Holly O. Witteman, **Jacob Solomon**, Nicole L. Exe, Angela Fagerlin
Society for Medical Decision Making Annual North American Meeting

2016 c.4 **Understanding and Promoting Shared Decision Making with a Novel Interactive Online Tool**
Fred Amell, **Jacob Solomon**, Brian Zikmund-Fisher, Konstantin Boroda, Yaara Zisman Ilani, Caroline Park, Santiago M. Thibaud, Anand D. Jagannath, Frederik Yick, Tina Shah, Taylor Miller, Ramachandra Reddy, Joshua Cho, Michelle Pong, Shey Mukundan, Esther Mizrahi, Ashley Cenicerros, Manaf Assafin, Hamid Lari, Kenny Ye, Darlene Lefrancois
Society of General Internal Medicine Annual Meeting

2016 c.3 **A Novel Interactive Icon-Array Software Improves Comprehension of Absolute Risk in Medical Trainees and Helps Transform a Large Risk Communication Site into a Potent Resource for Shared Decision Making**
Fred Amell, **Jacob Solomon**, Brian Zikmund-Fisher, David Newman, Caroline Park, Yaara Zisman-ilani, Konstantin Boroda, Santiago Thibaud, Anand Jagannath, Frederik Yick, Tina Shah, Taylor Miller, Ramachandra Reddy, Joshua Cho, Michelle Pong, Shey Mukundan, Kim Renwick, Esther Mizrahi, Darlene Lefrancois
4th Annual Lown Institute Conference

Audience Choice Award

- 2013 c.2 **Flaming, Criticism and Appreciation on Social Media - An Analysis of Discourse on YouTube Videos**
M. Laeeq Khan, Jacob Solomon
National Communication Association (NCA)
- 2013 c.1 **Advocacy, Entertainment and News: An Analysis of User Participation on YouTube**
M. Laeeq Khan, Jacob Solomon
Association for Education in Journalism and Mass Communication (AEJMC) Annual Conference

Working Papers and Under Review

- 2017 u.4 **Participatory Design for Participatory Research: Creating a Web-based Tool to Engage Communities in Prioritizing Health Research Spending**
Jacob Solomon, Terrance Campbell, Zachary Rowe, Lisa Szymecko, Susan Goid
In Preparation
- 2017 u.3 **Bias in Agreement with Recommender Systems Resulting from End-User Customization**
Jacob Solomon, Rick Wash, Wei Peng, Joshua Introne, Emilee Rader
In Preparation
- 2017 u.2 **The Role of User-Created Automations in Personal Health Informatics**
Jacob Solomon
In Preparation
- 2011 u.1 **Bots on Wikipedia: An Exploration of Social Influences**
Jacob Solomon
Working Paper

Technical Reports

- 2010 r.9 **Evaluation of Comprehensive Cancer Center Patient Site**
Jacob Solomon, Ricardo Yi
Technical Report for University of Michigan Comprehensive Cancer Center

- 2009 r.8 **Microsoft OneNote Tagging Comparative Evaluation**
Jonathan Cohen, Umanka Karkada, **Jacob Solomon**, Janani Sundar
Technical Report for Microsoft Corporation
- 2009 r.7 **Microsoft OneNote Tagging User Survey**
Jonathan Cohen, Umanka Karkada, **Jacob Solomon**, Janani Sundar
Technical Report for Microsoft Corporation
- 2009 r.6 **Microsoft OneNote Tagging Usability Testing**
Jonathan Cohen, Umanka Karkada, **Jacob Solomon**, Janani Sundar
Technical Report for Microsoft Corporation
- 2008 r.5 **OER Usability Analysis**
Jacob Solomon
Technical Report for Open.Michigan
- 2008 r.4 **MTagger Usability Testing**
Matthew Schultz, **Jacob Solomon**
Technical Report for University of Michigan Library Usability Working Group
- 2008 r.3 **MTagger Cognitive Walkthrough and Heuristic**
Jacob Solomon, Matthew Schultz
Technical Report for University of Michigan Library Usability Working Group
- 2008 r.2 **MTagger User Interviews**
Matthew Schultz, **Jacob Solomon**
Technical Report for University of Michigan Library Usability Working Group
- 2008 r.1 **MTagger Guerilla Testing of the Pop-up Tagging Window**
Matthew Schultz, **Jacob Solomon**
Technical Report for University of Michigan Library Usability Working Group

Other Contributions

2016

screeningdecision.com

Designed and developed a tool with Dr. Sameer Saini of the VA to assist clinicians in deciding when to stop screening patients for colorectal cancer. This tool is available at <http://screeningdecision.com>

Presentations

Presented papers for publications p.1, p.2, p.3, p.4, p.5, p.6, p.7, p.9, p.11, p.12 at their respective conferences.

- Mar 15, 2017 **Who Gets to Push the Buttons? Evaluating End-user Controllability in the Design of Health Information Technology**
University of Michigan School of Public Health
Ann Arbor, MI
- Feb 3, 2017 **Designing Sociotechnical Platforms to Support Crowd Innovation**
Brigham Young University Computer Science Colloquium
Provo, UT
- Nov 17, 2016 **End-user Control of Intelligent Systems: The Role of Interactivity in Computer-Supported Decision Making**
Brigham Young University Computer Science Colloquium
Provo, UT
- Nov 19, 2015 **Designing the Information Cockpit: The Impact of Customizable Algorithms on Computer-Supported Decision Making**
Center for Bioethics and Social Sciences in Medicine Seminar
Ann Arbor, MI
- Apr 25, 2014 **Customization Bias in Decision Support Systems**
Media and Information Studies Spring Research Symposium
East Lansing, MI

Apr 19, 2013 **Crowdfunding Risks and Rules**
Media and Information Studies Spring Research Symposium
East Lansing, MI

Apr 13, 2012 **An Immediacy-Based Model of Source Orientation**
Media and Information Studies Spring Research Symposium
East Lansing, MI

Awards

2014 **Dissertation Completion Fellowship**
College of Communication Arts and Sciences, Michigan State University

2014 **Outstanding Doctoral Researcher**
Department of Media and Information Studies, Michigan State University

2014 **Best of Symposium Award**
Media and Information Spring Research Symposium, Michigan State University

2013, 2012 **Summer Research Fellowship**
College of Communication Arts and Sciences, Michigan State University

2012, 2010 **Travel Award**
Department of Telecommunications, Information Studies, and Media, Michigan State University

2009 **Rakham Graduate Student Research Grant**
Rackham Graduate School, University of Michigan

Teaching

Courses Taught

- Fall 2008,
Fall 2009 **Russian 201**
University of Michigan
Primary instructor for 3rd semester Russian language course
- Winter 2009 **Russian 202**
University of Michigan
Primary instructor for 4th semester Russian language course
- Winter 2008 **Russia Today**
University of Michigan
Led discussion sections, graded essays for undergraduate course on contemporary Russian culture and politics

Mentoring

- 2013, 2014 **Katie Hoban**
Mentored REU project on crowdfunding, contributed to papers c.9 and c.11
- 2012 **Kyle Safran**
Mentored REU project on crowdfunding, led to paper c.6
- 2012 **Nate Zemanek**
Mentored NSF Research Experiences for Undergraduates (REU) project on computer security

Guest Lectures

- Feb. 3, 2017 **Depth First Search in Directed Graphs and Strongly Connected Components**
CS 312: Algorithm Design and Analysis
Brigham Young University

Service

- 2016-17 **Program Committee Associate Chair**
ACM Conference on Human Factors in Computing Systems (CHI) - Late Breaking Work
- 2016-17 **CBSSM Professional Development Committee Member**
- 2014-18 **Reviewer**
ACM Conference on Human Factors in Computing Systems (CHI)
[Excellent Review Acknowledgement 2016](#)
- 2013, 2015-17 **Reviewer**
ACM Conference on Computer-Supported Cooperative Work (CSCW)
[Excellent Review Acknowledgement 2017](#)
- 2017 **Reviewer**
ACM User Interface Software and Technology Symposium
- 2017 **Reviewer**
The American Journal of Medicine
- 2017 **Reviewer**
Telematics and Informatics
- 2017 **Reviewer**
Medical Decision Making
- 2016 **Reviewer**
Patient Education and Counseling
- 2011 **Reviewer**
Journal of Computer-Mediated Communication

Membership

Association for Computing Machinery (ACM)

Human Factors and Ergonomics Society

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