

I am a researcher in Human-Computer Interaction, Human Factors Engineering and Health Informatics. My primary interest is informing the design of tools that assist in decision making, particularly those that use sophisticated computation. I engage in empirical research and design efforts with a goal of generating new knowledge and theory about computer-supported decision making.

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

- 2015 - Present **Postdoctoral Fellow in Decision Sciences**
University of Michigan Medical School
Center for Bioethics and Social Sciences in Medicine
- 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.

- In Press 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)

- 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

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

Working Papers and Under Review

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| 2016 | u.2 | <p>The Role of User-Created Automations in Personal Health Informatics</p> <p>Jacob Solomon</p> <p>Under Review</p> |
| 2011 | u.1 | <p>Bots on Wikipedia: An Exploration of Social Influences</p> <p>Jacob Solomon</p> <p>Working Paper</p> |

Technical Reports

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| 2010 | r.9 | <p>Evaluation of Comprehensive Cancer Center Patient Site</p> <p>Jacob Solomon, Ricardo Yi</p> <p>Technical Report for University of Michigan Comprehensive Cancer Center</p> |
| 2009 | r.8 | <p>Microsoft OneNote Tagging Comparative Evaluation</p> <p>Jonathan Cohen, Umanka Karkada, Jacob Solomon, Janani Sundar</p> <p>Technical Report for Microsoft Corporation</p> |
| 2009 | r.7 | <p>Microsoft OneNote Tagging User Survey</p> <p>Jonathan Cohen, Umanka Karkada, Jacob Solomon, Janani Sundar</p> <p>Technical Report for Microsoft Corporation</p> |
| 2009 | r.6 | <p>Microsoft OneNote Tagging Usability Testing</p> <p>Jonathan Cohen, Umanka Karkada, Jacob Solomon, Janani Sundar</p> <p>Technical Report for Microsoft Corporation</p> |

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	Colonoscopy Screening Decision Aid 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://das.med.umich.edu/screening/screening.html
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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.

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
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- 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

Service

2016	Program Committee Associate Chair ACM Conference on Human Factors in Computing Systems (CHI) - Late Breaking Work
2016	CBSSM Professional Development Committee Member
2014-17	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)
2016	Reviewer Patient Education and Counseling
2011	Reviewer Journal of Computer-Mediated Communication

Membership

Association for Computing Machinery (ACM)

Human Factors and Ergonomics Society

Last updated: November, 2016