Jacob Solomon

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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**

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.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 Mizrachi, Ashley Ceniceros, 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 Mizrachi, 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

2016	u3	The Role of User-Created Automations in Personal Health Informatics

Jacob Solomon

Under Review

2016	u.2	Increasing Public Sensitivity to Variations in Non-normal Laboratory Test Results Through Use of Number Line Graphs Instead of Tables

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

Under Review

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 Walkthough 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

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 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**
2014-16	**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)
2011	**Reviewer**
	Journal of Computer-Mediated Comminication

Membership

Association for Computing Machinery (ACM)

Human Factors and Ergonomics Society

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