C. ESTELLE SMITH

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EDUCATION

University of Minnesota, Twin Cities, MN — 2016-2020 (expected)
Ph.D. in GroupLens Research Lab
Areas of specialization: Human-Computer Interaction and Social Computing
Thesis title: *Beyond Social Support: Spiritual Support as a Novel Design Dimension in Sociotechnical Systems*
Dissertation committee: Loren Terveen (advisor, Dept. Computer Science), Susan O'Conner-Von (co-advisor, School of Nursing, Center for Spirituality & Healing), Joseph Konstan (committee member, Dept. Computer Science), Daniel Keefe (committee member, Dept. Computer Science)
Thesis proposal: July 2020

University of Minnesota, Twin Cities, MN — 2005-2010, 2014-2015
B.A., English Literature (2010); B.S., Neuroscience (2015)
Graduation Summa Cum Laude
Lifson/Johnson Memorial Teaching Award (2015)
Phi Beta Kappa Honor Society (2014)

RESEARCH

Research Interests: Social Support in Online Communities, Human-Centered Machine Learning and Artificial Intelligence, Science Communications and Public Scholarship

Publications

C. Estelle Smith, Zachary Levonian, Robert Giaquinto, Haiwei Ma, Gemma Lein-McDonough, Zixuan Li, Susan O'Conner-Von, and Svetlana Yarosh. "I Cannot Do All of This Alone": Exploring Instrumental and Prayer Support in Online Health Communities. ACM Transactions on Computer-Human Interaction (TOCHI). (Accepted May 2020)

C. Estelle Smith, Bowen Yu, Anjali Srivastava, Aaron Halfaker, Loren Terveen, and Haiyi Zhu. Keeping Community in the Loop: Understanding Wikipedia Stakeholder Values for Machine Learning-Based Systems. Proc. CHI 2020. (Acceptance Rate: 24.3%) **Best Paper Honorable Mention Award (Top 5% of submissions)**

C. Estelle Smith, Eduardo Nevarez, and Haiyi Zhu. Disseminating Research News in Human-Computer Interaction: Perceived Hazards, How-To's, and Opportunities for Innovation. Proc. CHI 2020. (Acceptance Rate: 24.3%)

C. Estelle Smith, Xinyi Wang, Raghav Karumur, and Haiyi Zhu. 2018. [Un]breaking News: Design Opportunities for Enhancing Collaboration in Scientific Media Production. Proc. CHI 2018. (Acceptance Rate: 25.7%) **Best Paper Honorable Mention Award (Top 5% of submissions)**

Niels van Berkel, Julio Vega, Ankit Kariryaa, **C. Estelle Smith,** and Ye Yuan. CHI 2018 Conference Report. IEEE Pervasive Computing, vol. 17, no. 03, pp. 58-63, Jul., 2018.

Haiwei Ma, **C. Estelle Smith,** Lu He, Saumik Narayanan, Robert A. Giaquinto, Roni Evans, Linda Hanson, and Svetlana Yarosh. 2017. Write for Life: Persisting in Online Health Communities with Expressive Writing and Social Support. Proc. ACM Human-Computer Interaction 1, 2, Article 73 (November 2017). (Acceptance Rate: 27.3%)

Work in Progress

C. Estelle Smith, Avleen Kaur, Katie Z. Gach, Loren Terveen, Mary Jo Kreitzer, and Susan O'Conner-Von. What is "Spiritual Support" and How Should It Impact the Design of Online Health Communities? *In submission to the 2020 ACM Conference on Computer-Supported Cooperative Work and Social Computing.*

Presentations

C. Estelle Smith. (May, 2020) Keeping Community in Machine Learning Loop. Live virtual presentation at the Wikimedia Research Showcase. https://youtu.be/8nDiu2ebdOI?t=1950

C. Estelle Smith. (May, 2020) Keeping Community in the Loop: Understanding Wikipedia Stakeholder Values for Machine Learning-Based Systems. Virtual video upload to the 2020 CHI Conference on Human Factors in Computing Systems.

C. Estelle Smith. (April, 2018) [Un]breaking News: Design Opportunities for Enhancing Collaboration in Scientific Media Production. Full paper talk at the 2018 CHI Conference on Human Factors in Computing Systems. Montreal, Quebec, Canada.

TEACHING

University of Minnesota, Twin Cities, MN 2016, 2018
Teaching Assistant, CSCI 5127W Embodied Computing: Design & Prototyping (two semesters)
Students conceived, prototyped, and submitted extended abstracts on novel technology solutions to Student Design Competitions (SDCs) at the 2017 and 2019 CHI Conferences.

- Taught writing skills through in-class presentations.
- Reader/grader for all course assignments.
- Provided iterative writing feedback and intellectual guidance of data analyses/projects.
- Received excellent teaching reviews.
- 3 student teams had abstracts accepted to SDCs (Acceptance Rate: 13%).

University of Minnesota, Twin Cities, MN 2016
Teaching Assistant, CSCI 1133 Introduction to Computing and Programming Concepts
Taught and graded weekly lab sections in Python programming. Held weekly office hours.

University of Minnesota, Twin Cities, MN 2014, 2015
Teaching Assistant, PHSL 3051 Human Physiology (three semesters)
Taught weekly interactive lab sessions in human physiology. Assisted with grading.

- Lead weekly Q&A sessions with voluntary attendance by 20-100 students each time.
- Hired to revise and edit critical thinking exercises published in: Anderson, L.C. & Keirstead, S.A. *Cells to Systems: Critical Thinking Exercises in Physiology, 3rd ed.* 2015.

PROFESSIONAL EXPERIENCE

CaringBridge Summer 2019
Independent Research Contractor
Hired to conduct research with four CaringBridge stakeholder groups to understand the nature and technical implications of "spiritual support" in online health communities.

- Designed research goals, implemented activities to follow-up on our prior work together.
- Planned, recruited participants, conducted, analyzed participatory design focus groups.

University of Minnesota, Twin Cities 2014-Present
College of Biological Science (CBS), and
BioTechnology Institute (BTI)
Contract Science Writer and Instructor
Independently hired on an occasional basis.

- Written over three dozen pieces of scientific content, many styles and formats.
- Professional photography for research and business purposes.
- Taught 5 writing workshops for BTI Science Communications Internship program.

Bay Area Startups 2011-2013
Content Management Positions
(Full-Time and Freelance)
Developed exceptional writing and project management skills in rapidly evolving, deadline-driven, early- and late-stage startups, including Airbnb, Peek, Deem, and Plum District.

- Wrote and edited marketing/website/email copy in up to 8 markets simultaneously.
- Designed visuals and photo essays for geographically targeted content.

ACADEMIC SERVICE

- President, Computer Science Graduate Student Association, Fall 2019-Summer 2020.
- Reviewed 9 papers for the CHI Conference, CSCW Conference, Human-Computer Interaction Journal, and Transactions on Computer-Human Interaction Journal.

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery (ACM)
- National Association of Science Writers (NASW)