C. Estelle Smith Curriculum Vitae

Graduate Research Fellow
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Research Statement

Co-advised by Drs. Svetlana Yarosh and Haiyi Zhu, I am a second year Ph.D. student in GroupLens Research, a social computing lab at the University of Minnesota. My research explores the creation, sharing, and consumption of scientific media online. My goal is to design and build socio-technical systems that mitigate the spread of misinformation and improve scientific literacy of the general public.

Education

UNIVERSITY OF MINNESOTA, Twin Cities, MN
Matriculated in Computer Science Ph.D. program, September 2016
Bachelor of Science, Neuroscience, *With Distinction*, 2015
Bachelor of Arts, English (Creative Writing), German Minor, *Summa Cum Laude*, 2010

IES ABROAD, Vienna, Austria
Full Year Study Abroad, 2008-09

Awards

GAANN Fellowship (2017)
Graduate Teaching Assistantship (2016)
Lifson/Johnson Memorial Teaching Award (2015)
Phi Beta Kappa Honor Society (2014)
Presidential Scholarship (2005)

Research Experience

UNIVERSITY OF MINNESOTA, GROUPLENS RESEARCH LAB, Minneapolis, MN
Ph.D. Researcher September 2016 to Present
I am currently working on a large text corpus from CaringBridge.org, an online community for writing about health journeys. I also led an interview study with scientists and media professionals to build a holistic understanding of the design space for future media tools/systems to mitigate the spread of misinformation. Skills include big data text analysis (data management, cleaning, and parsing, and machine learning) and Ground Theory qualitative analysis.

UNIVERSITY OF MINNESOTA, MESCE NEUROSCIENCE LAB, Saint Paul, MN
Junior Scientist May 2014 to June 2015
I investigated sensory integration of nociceptive stimuli in the medicinal leech, *Hirudo medicinalis,* completing a Directed Research Project in Fall 2014 (Thesis: "Stimulation of Nociceptive Inputs Does Not Advance Recovery of Locomotor Behavior") and an Undergraduate Research Opportunity (UROP), Spring 2015 (Poster presentation: "The Crawl Towards Nerve Cord Recovery").

Selected Teaching Experiences

UNIVERSITY OF MINNESOTA COLLEGE OF SCIENCE AND ENGINEERING
Graduate Teaching Assistant, CSCI 5127W Fall 2016
"Human-Centered Design and Prototyping of Ubiquitous Computing Systems"
Students prototyped hardware designs for the Student Design Competition at the 2017 CHI Conference. I taught writing skills through in-class presentations, weekly office hours, and iterative feedback through grading assignments.

Undergraduate Teaching Assistant, CSCI 1133 Spring 2016
"Introduction to Computing and Programming Concepts"
I instructed labs in Python programming, held office hours, and assisted with grading.

UNIVERSITY OF MINNESOTA MEDICAL SCHOOL
Undergraduate Teaching Assistant, PHSL 3051 Fall 2014, Spring & Fall 2015
"Human Physiology"
I received the Lifson/Johnson Memorial Award for excellence in teaching for this class. I was specially chosen to lead weekly Q&A sessions; voluntary attendance ranged from 20-100 students. I was 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.* Dubuque: Kendall Hunt Publishing Company, 2015. Print.

TECHSPLOSION STEM ENRICHMENT PROGRAM, San Francisco, CA
Lead Instructor September to December 2012
I instructed after-school technology classes in Video Game Design, LEGO Robotics, Stop Motion Animation, and Near-Space Photography.

Selected Industry Experiences

UMN COLLEGE OF BIOLOGICAL SCIENCES (CBS), Saint Paul, MN
UMN BIOTECHNOLOGY INSTITUTE (BTI), Saint Paul, MN
Freelance Science Writer, Writing Instructor May 2014 to Present
I have written over three dozen pieces of scientific content (online and print), web copy for 4 graduate programs, and dozens of photographs (headshots, research processes). A short video series with CBS is currently in production. I also taught 2 writing workshops for BTI's Science Communications interns.

AIRBNB, San Francisco, CA
Contract Writer December 2013 to May 2014
I designed and captioned photo essays for 33 "Neighborhoods Pages" in three cities.

DEEM, San Francisco, CA
Content Manager August 2012 to December 2013
Using Salesforce, Google Docs, Teamwork PM, and Photoshop, I created and managed geographically-targeted online daily deal content in 6 markets.

PLUM DISTRICT, San Francisco, CA
Content Manager May 2011 to February 2012
In an intense (early stage) start-up environment, I coordinated a team of 30+ sales team members to produce geographically-targeted online daily deals in 8 markets.

Publications

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), 24 pages.
pages. https://doi.org/10.1145/3134708 (Acceptance Rate: 27.3%)

Accepted to CHI 2018:
C. Estelle Smith, Xinyi Wang, Raghav Karumur, and Haiyi Zhu. [Un]breaking News: Design Opportunities for Enhancing Collaboration in Scientific Media Production.