

Kurt Luther, Ph.D.

CONTACT	Virginia Tech Research Center — Arlington 900 N. Glebe Road, Arlington, VA 22203 USA	Email: kluther@vt.edu Web: http://crowd.cs.vt.edu
RESEARCH INTERESTS	Human-computer interaction (HCI), human-centered artificial intelligence (AI), intelligent user interfaces, crowdsourcing, social computing, and computer-supported cooperative work (CSCW), with applications to national security, journalism, and history.	
EDUCATION	Georgia Institute of Technology (Georgia Tech) , Atlanta, Ga. Ph.D. in Human-Centered Computing, focus in Social Computing, 2006–2012 Dissertation: <i>Supporting and Transforming Leadership in Online Creative Collaboration</i> Committee: Amy Bruckman (chair), Ellen Do, Eric Gilbert, Scott Counts, Wendy Kellogg Purdue University , West Lafayette, Ind. B.S. in Computer Graphics Technology, minor in Art & Design, 2002–2006	
EXPERIENCE	Virginia Polytechnic Institute and State University (Virginia Tech) , Blacksburg, Va. Founding Faculty Member, Virginia Tech Innovation Campus, 2022–Present Associate Professor (with tenure), Department of Computer Science, 2020–Present Director, Crowd Intelligence Lab, 2014–Present Assistant Professor, Department of Computer Science, 2014–2020 Virginia Military Institute , Lexington, Va. Adjunct Professor, Department of Computer and Information Sciences, 2021–Present Military Images Magazine , Arlington, Va. Senior Editor and Columnist, 2020–Present Contributing Editor and Columnist, 2014–2020 Carnegie Mellon University , Pittsburgh, Pa. Postdoctoral Fellow, Human-Computer Interaction Institute, 2012–2014 Co-advisors: Steven Dow and Aniket Kittur Georgia Institute of Technology (Georgia Tech) , Atlanta, Ga. Graduate Research Assistant, School of Interactive Computing, 2006–2012 Advisor: Amy Bruckman YouTube (Google) , San Bruno, Calif. User Experience Research Intern, Summer 2010 Mentor: Sasha Lubomirsky Newgrounds , Glenside, Pa. Web Development Intern, Summer 2009 Microsoft Research , Redmond, Wash. Research Intern, Social Computing Group and VIBE Group, Summer 2008 Mentor: Scott Counts IBM Thomas J. Watson Research Center , Hawthorne, N.Y. Research Intern, Social Computing Group, Summer 2007 Mentors: Jason Ellis and Wendy Kellogg	
CERTIFICATIONS	GIAC Open Source Intelligence (GOSI) Certification, 2021–2025 Amazon Web Services (AWS) Certified Cloud Practitioner, 2021–2024	
AWARDS & HONORS	Virginia Tech College of Engineering Faculty Fellow (\$15,000 award), 2021–2024 National Science Foundation I-Corps Southwest Node People’s Choice Award, 2022 ACM Senior Member, 2020 ACM IUI Best Paper Award (#1 paper of 282 submissions), 2019	

AAI HCOMP Best Poster/Demo Award (#1 poster/demo of 25 submissions), 2019
 Purdue University Outstanding Technology Alumni Award, 2019
 American Civil War Museum Emerging Scholar, 2019
 Virginia Tech College of Engineering Outstanding New Assistant Professor Award, 2018
 Microsoft Cloud AI Research Challenge Grand Prize (\$25,000 award), 2018
 AAI HCOMP Best Poster/Demo Award (#1 poster/demo of 31 submissions), 2018
 Virginia Tech ICTAS Junior Faculty Award (\$80,000 award), 2018
 ACM Recognition of Service Award, 2018
 National Science Foundation CAREER Award, 2017
 AAI HCOMP Notable Paper Award (#2 paper of 83 submissions), 2017
 Virginia Tech TLOS XCaliber Award Finalist (for technology-enriched teaching), 2016
 Army Historical Foundation Distinguished Writing Awards Finalist, 2015
 Virginia Tech Center for HCI Research Impact Award, 2015
 ACM CSCW Best Paper Award (top 1% of 390 submissions), 2013
 ACM CSCW Best Paper Honorable Mention Award (top 5% of 415 submissions), 2012
 Georgia Tech James D. Foley Scholar (\$5,000 award), 2011
 ACM CHI Golden Mouse Award (for most entertaining video), 2009
 Indiana University Barwise Fellowship for Doctoral Studies in Informatics, 2006 (declined)
 Purdue University Graduation with Highest Distinction and Departmental Honors, 2006
 Purdue University Perfect 4.0 GPA Recognition Award, 2006
 Purdue University Academic Success Award (\$11,100 merit scholarship), 2002–2006

FUNDING

External Funding (Total: \$3,113,116; Personal share: \$1,592,171)

Experiencing Civil War history through augmented reality: Soldiers, civilians, and the environment at Pamplin Historical Park. National Endowment for the Humanities MT-290202-23 (DPP: Prototyping), Paul Quigley (PI), Kurt Luther (Co-PI), et al., 2023–2025. Total: \$98,519.

Project Maven. Department of Defense, subcontract from Carnegie Mellon University, Laura Freeman (PI), Kurt Luther (Senior Personnel), et al., 2023. Total: \$27,550.

Transforming investigative science and practice with expert-led crowdsourcing. National Science Foundation IIS-1651969 (CAREER), Kurt Luther (PI), 2017–2023. Total: \$554,628. REU supplements: \$8,000 (2018), \$16,000 (2019).

ESHAEP. Department of Defense, subcontract from University of Southern California, Logan Eisenbeiser (PI), Kurt Luther (Senior Personnel), 2022. Total: \$27,550.

Historical photo identification with crowdsourcing and automated face recognition. National Science Foundation TI-2221733 (I-Corps), Kurt Luther (PI), 2022. Total: \$49,309.

Mission Engineering. Department of Defense, subcontract from Stevens Institute of Technology, Stoney Trent (PI), Kurt Luther (Senior Personnel), 2022. Total: \$27,550.

Exploring the impact of human-AI collaboration on open source intelligence (OSINT) investigations of social media disinformation. Commonwealth Cyber Initiative H-4Q21-010, Kurt Luther (PI), Aaron Brantly (Co-PI), and David Hicks (Co-PI), 2021–2022. Total: \$65,000.

Experiencing Civil War history through augmented reality: Soldiers, civilians, and the environment at Pamplin Historical Park. National Endowment for the Humanities MD-277054-21 (DPP: Discovery), Paul Quigley (PI), Kurt Luther (Co-PI), et al., 2021–2022. Total: \$30,000.

ASED. Department of Defense, subcontract from University of Southern California, Justus Graham (PI), Kurt Luther (Co-PI), 2020–2021. Total: \$200,000.

The American Soldier in World War II. National Endowment for the Humanities PW-264049-19 (HCRR: Implementation), Edward Gitre (PI), Kurt Luther (Co-PI), et al., 2019–2021. Total: \$349,864.

Threat Beacon. Department of Defense, subcontract from Virginia Tech Applied Research Corporation, Justus Graham (PI), Kurt Luther (Co-PI), 2020. Total: \$250,850.

GraphCrowd: Using crowdsourced design to visualize effects of environmental chemicals on signaling networks. National Institutes of Health 1UH2CA203768-01 (Big Data to Knowledge), Kurt Luther and T.M. Murali (MPIs; i.e., joint PIs), 2016–2019. Total: \$626,159.

Supporting crowdsourced sensemaking in big data with dynamic context slices. National Science Foundation IIS-1527453 (Cyber-Human Systems), Kurt Luther (PI) and Chris North (Co-PI), 2015–2019. Total: \$500,000. REU supplements: \$16,000 (2018), \$16,000 (2019).

Civil War Photo Sleuth. Microsoft Cloud AI Research Challenge Grand Prize, Kurt Luther (PI), Vikram Mohanty (student), and David Thames (student), 2018. Total: \$25,000.

The American Soldier collaborative digital archive. National Endowment for the Humanities PW-253766-17 (HCRR: Foundations), Edward Gitre (PI), Kurt Luther (Co-PI), and Marc Brodsky (Co-PI), 2017–2018. Total: \$50,000.

Graduate Student Symposium at the 2017 ACM Conference on Creativity & Cognition. National Science Foundation IIS-1723306 (Cyber-Human Systems), Kurt Luther (PI), 2017. Total: \$25,252.

Mapping the Fourth of July in the American Civil War Era: A crowdsourced digital archive. National Historical Publications and Records Commission DH50013-15, Paul Quigley (PI), Kurt Luther (Co-PI), David Hicks (Co-PI), and Andi Ogier (Co-PI), 2015–2017. Total: \$74,224.

Crowd-augmented search and sensemaking. Google Faculty Research Award, Aniket Kittur (PI), Steven Dow (Co-PI), and Kurt Luther (Proposal Team Member), 2014. Total: \$75,660. (115/691 = 16.6% acceptance rate)

Internal Funding (Total: \$308,491)

Creativity and innovation at the intersection of technology, art, and history. Virginia Tech ICAT Research Leave Augmentation Award, Kurt Luther (PI). 2022. Total: \$70,000.

Faculty Fellowship. Virginia Tech College of Engineering, Kurt Luther (PI), 2021–2024. Total: \$15,000.

ISERC Grant. Virginia Tech Integrated Security Destination Area. Aaron Brantly (PI), Kurt Luther (Co-PI), and David Hicks (Co-PI). 2021–2022. Total: \$10,000.

Crowd intelligence software project. Luther and Alice Hamlett Undergraduate Research Scholarship, Yunis Hussein (Student), Kurt Luther (Faculty Advisor). 2021. Total: \$2,000.

Preparing under-represented students for data science careers with open source intelligence training. Virginia Tech Data & Decisions Grant, Kurt Luther (PI), Aaron Brantly (Co-PI), and David Hicks (Co-PI). 2020–2021. Total: \$15,000. (3/12 = 25% acceptance rate)

Augmenting computer vision with crowdsourcing to identify people in historical and modern photographs. Virginia Tech ICTAS Junior Faculty Award, Kurt Luther (PI) and Paul Quigley (Co-PI), 2018–2020. Total: \$80,000. (12/72 = 16.7% acceptance rate)

CAREER Incentive Grant. Virginia Tech College of Engineering, Kurt Luther (PI), 2017–2022. Total: \$40,000.

Equipment Grant. SCHEV, Kurt Luther (PI), 2018. Total: \$6,111.

Incentive Reward Fund. Virginia Tech Department of Computer Science, Kurt Luther (PI), 2017. Total: \$7,000.

VTArtWorks. Virginia Tech ICAT SEAD Major Initiative, Robert Leonard (PI), Kurt Luther (Co-PI), and Andi Ogier (Co-PI), 2016. Total: \$25,000.

Incentive Reward Fund. Virginia Tech Department of Computer Science, Kurt Luther (PI), 2016. Total: \$3,500.

Designing software and community participation for crowdsourced history research. Virginia Tech ICAT SEAD Mini-grant, [Kurt Luther](#) (PI), David Hicks (Co-PI), and Paul Quigley (Co-PI), 2016. Total: \$2,880.

Incentive Reward Fund. Virginia Tech Department of Computer Science, [Kurt Luther](#) (PI), 2015. Total: \$2,500.

Supporting community information sharing with mobile crowdsourcing and large display technologies. Virginia Tech Center for HCI Seed Grant, Michael Horning, Andrea Kavanaugh, [Kurt Luther](#), Manuel Pérez-Quiñones, and John Tedesco (joint PIs), 2015. Total: ≈\$15,000.

New Assistant Professor Mentoring Grant. Virginia Tech Office of the Executive Vice President and Provost, [Kurt Luther](#) (PI), 2015. Total: \$1,500.

Supporting crowdsourced sensemaking in big data with context slices. Virginia Tech ICTAS Seed Grant, [Kurt Luther](#) (PI) and Chris North (Co-PI), 2014. Total: \$10,000.

Supporting leadership development and reflection through creative social computing. Virginia Tech ICAT SEAD Mini-grant, [Kurt Luther](#) (PI), Nicholas Clegorne (Co-PI), and Holly Larson Lesko (Co-PI), 2014. Total: \$3,000.

PUBLICATIONS

Google Scholar citations: 1724; h-index: 20; i10-index: 32

Note: * indicates a student or postdoc (co-)advised by Kurt Luther.

Refereed Journal Articles

Vikram Mohanty* and [Kurt Luther](#). 2023. DoubleCheck: Designing community-based assessability for historical person identification. To appear in *ACM Journal on Computing and Cultural Heritage*. (2.047 impact factor)

Matthew Wilchek*, Will Hanley, Jude Lim*, [Kurt Luther](#), and Feras Batarseh. 2023. Human-in-the-loop for computer vision assurance: A survey. *Engineering Applications of Artificial Intelligence* 123: 106376:1–106376:15. (7.802 impact factor)

Aditya Bharadwaj*, David Gwizdala*, Yoonjin Kim, [Kurt Luther](#), and T. M. Murali. 2022. Flud: A hybrid crowd-algorithm approach for visualizing biological networks. *ACM Transactions on Computer-Human Interaction* 29, 1: 8:1–8:53. (4.106 impact factor)

Sukrit Venkatagiri*, Aakash Gautam, and [Kurt Luther](#). 2021. CrowdSolve: Managing tensions in an expert-led crowdsourced investigation. *Proceedings of the ACM on Human-Computer Interaction* 5, CSCW1: 118:1–118:30.

Vikram Mohanty*, David Thames*, Sneha Mehta*, and [Kurt Luther](#). 2020. Photo Sleuth: Identifying historical portraits with face recognition and crowdsourced human expertise. *ACM Transactions on Interactive Intelligent Systems* 10, 4: 33:1–33:36. (1.887 impact factor) (Invited submission)

Nai-Ching Wang*, David Hicks, Paul Quigley, and [Kurt Luther](#). 2019. Read-Agree-Predict: A crowdsourced approach to discovering relevant primary sources for historians. *Human Computation* 6, 1: 147–175.

Sukrit Venkatagiri*, Jacob Thebault-Spieker*, Rachel Kohler*, John Purviance*, Rifat Sabbir Mansur*, and [Kurt Luther](#). 2019. GroundTruth: Augmenting expert image geolocation with crowdsourcing and shared representations. *Proceedings of the ACM on Human-Computer Interaction* 3, CSCW: 107:1–107:30. (205/658 = 31.2% acceptance rate)

Tianyi Li*, Chandler J. Manns*, Chris North, and [Kurt Luther](#). 2019. Dropping the baton? Understanding errors and bottlenecks in a crowdsourced sensemaking pipeline. *Proceedings of the ACM on Human-Computer Interaction* 3, CSCW: 136:1–136:26. (205/658 = 31.2% acceptance rate)

Maoyuan Sun, Jian Zhao, Hao Wu, [Kurt Luther](#), Chris North, and Naren Ramakrishnan. 2019. The effect of edge bundling and seriation on sensemaking of biclusters in bipartite graphs.

IEEE Transactions on Visualization and Computer Graphics 25, 10: 2983–2998. (5.226 impact factor)

Nai-Ching Wang*, David Hicks, and Kurt Luther. 2018. Exploring trade-offs between learning and productivity in crowdsourced history. *Proceedings of the ACM on Human-Computer Interaction* 2, CSCW: 178:1–178:24. (289/1107 = 26.1% acceptance rate)

Tianyi Li*, Kurt Luther, and Chris North. 2018. CrowdIA: Solving mysteries with crowdsourced sensemaking. *Proceedings of the ACM on Human-Computer Interaction* 2, CSCW: 105:1–105:29. (289/1107 = 26.1% acceptance rate)

Aditya Bharadwaj*, Divit P. Singh*, Anna Ritz, Allison N. Tegge, Christopher L. Poirel, Pavel Kraikivski, Neil Adames, Kurt Luther, Shiv D. Kale, Jean Peccoud, John J. Tyson, and T. M. Murali. 2017. GraphSpace: stimulating interdisciplinary collaborations in network biology. *Bioinformatics* 33, 19: 3134–3136. (6.931 impact factor)

Refereed Papers in Conference Proceedings

Sukrit Venkatagiri*, Anirban Mukhopadhyay*, David Hicks, Aaron Brantly, and Kurt Luther. 2023. CoSINT: Designing a collaborative capture the flag competition to investigate misinformation. To appear in *Proceedings of the 18th ACM Conference on Designing Interactive Systems* (DIS '23). (726 submissions, 24% acceptance rate)

Jacob Thebault-Spieker*, Sukrit Venkatagiri*, Naomi Mine, and Kurt Luther. 2023. Diverse perspectives can mitigate political bias in crowdsourced content moderation. To appear in *Proceedings of the 6th ACM Conference on Fairness, Accountability, and Transparency* (FAccT '23). (154/608 = 25.3% acceptance rate)

Andreea Sistrunk, Nathan Self, Subhodip Biswas, James A. Egenrieder, Kurt Luther, Adriana Glenn, and Naren Ramakrishnan. 2023. Redrawing public school boundaries: An intersection of geography, education policy, and computer science. To appear in *Proceedings of the 21st European Conference on Computer-Supported Cooperative Work* (ECSCW '23).

Tianjiao Yu*, Sukrit Venkatagiri*, Ismini Lourentzou, and Kurt Luther. 2023. Sedition Hunters: A quantitative study of the crowdsourced investigation into the 2021 U.S. Capitol attack. In *Proceedings of the 32nd ACM Web Conference* (WWW '23), 3849–3858. (365/1900 = 19.2% acceptance rate)

Manisha Kusuma*, Vikram Mohanty*, Marx Wang*, and Kurt Luther. 2022. Civil War Twin: Exploring ethical challenges in designing an educational face recognition application. In *Proceedings of the 5th AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society* (AIES '22), 369–384. (79/235 = 33.6% acceptance rate)

Yasmine Belghith*, Sukrit Venkatagiri*, and Kurt Luther. 2022. Compete, collaborate, investigate: Exploring the social structures of open source intelligence investigations. In *Proceedings of the 40th ACM Conference on Human Factors in Computing Systems* (CHI '22), 129:1–129:18. (638/2579 = 24.7% acceptance rate)

Tianyi Li*, Yasmine Belghith*, Chris North, and Kurt Luther. 2020. CrowdTrace: Visualizing provenance in distributed sensemaking. In *Proceedings of the 31st IEEE Visualization Conference* (VIS '20), 191–195. (59/164 = 36.0% acceptance rate)

Vikram Mohanty*, Kareem Abdol-Hamid*, Courtney Ebersohl*, and Kurt Luther. 2019. Second Opinion: Supporting last-mile person identification with crowdsourcing and face recognition. In *Proceedings of the 7th AAAI Conference on Human Computation and Crowdsourcing* (HCOMP '19), 86–96. (22/87 = 25.3% acceptance rate)

Aditya Bharadwaj*, Pao Siangliulue, Adam Marcus, and Kurt Luther. 2019. Critter: Augmenting creative work with dynamic checklists, automated quality assurance, and contextual reviewer feedback. In *Proceedings of the 37th ACM Conference on Human Factors in Computing Systems* (CHI '19), 539:1–539:12. (705/2960 = 23.8% acceptance rate)

Vikram Mohanty*, David Thames*, Sneha Mehta*, and [Kurt Luther](#). 2019. Photo Sleuth: Combining human expertise and face recognition to identify historical portraits. In *Proceedings of the 24th ACM Conference on Intelligent User Interfaces (IUI '19)*, 547–557. (71/282 = 25.2% acceptance rate) (**Best Paper Award**)

Divit P. Singh*, Lee Lisle*, T. M. Murali, and [Kurt Luther](#). 2018. CrowdLayout: Crowdsourced design and evaluation of biological network visualizations. In *Proceedings of the 36th ACM Conference on Human Factors in Computing Systems (CHI '18)*, 232:1–232:14. (666/2592 = 25.7% acceptance rate)

Rachel Kohler*, John Purviance*, and [Kurt Luther](#). 2017. Supporting image geolocation with diagramming and crowdsourcing. In *Proceedings of the 5th AAAI Conference on Human Computation and Crowdsourcing (HCOMP '17)*, 98–107. (24/83 = 28.9% acceptance rate) (**Notable Paper Award**)

Alvin Yuan, [Kurt Luther](#), Markus Krause, Sophie Isabel Vennix*, Steven P. Dow, and Björn Hartmann. 2016. Almost an expert: The effects of rubrics and expertise on perceived value of crowdsourced design critiques. In *Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '16)*, 1005–1017. (142/571 = 24.9% acceptance rate)

[Kurt Luther](#), Nathan Hahn, Steven P. Dow, and Aniket Kittur. 2015. Crowdlines: Supporting synthesis of diverse information sources through crowdsourced outlines. In *Proceedings of the 3rd AAAI Conference on Human Computation and Crowdsourcing (HCOMP '15)*, 110–119. (21/70 = 30.0% acceptance rate)

[Kurt Luther](#), Jari-Lee Tolentino*, Wei Wu, Amy Pavel, Brian P. Bailey, Maneesh Agrawala, Björn Hartmann, and Steven P. Dow. 2015. Structuring, aggregating, and evaluating crowdsourced design critique. In *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '15)*, 473–485. (165/575 = 28.7% acceptance rate)

Justin B. Cranshaw, [Kurt Luther](#), Patrick Gage Kelley, and Norman Sadeh. 2014. Curated City: Capturing individual city guides through social curation. In *Proceedings of the 32nd ACM Conference on Human Factors in Computing Systems (CHI '14)*, 3249–3258. (465/2043 = 22.8% acceptance rate)

[Kurt Luther](#), Casey Fiesler, and Amy Bruckman. 2013. Redistributing leadership in online creative collaboration. In *Proceedings of the 16th ACM Conference on Computer Supported Cooperative Work (CSCW '13)*, 1007–1022. (139/390 = 35.6% acceptance rate) (**Best Paper Award**)

Paul André, Michael Bernstein, and [Kurt Luther](#). 2012. Who Gives a Tweet?: Evaluating microblog content value. In *Proceedings of the 15th ACM Conference on Computer Supported Cooperative Work (CSCW '12)*, 471–474. (164/415 = 39.5% acceptance rate) (**Best Paper Honorable Mention Award**)

[Kurt Luther](#), Kelly Caine, Kevin Ziegler*, and Amy Bruckman. 2010. Why it works (when it works): Success factors in online creative collaboration. In *Proceedings of the 16th ACM Conference on Supporting Group Work (GROUP '10)*, 1–10. (36/101 = 35.6% acceptance rate)

[Kurt Luther](#), Scott Counts, Kristin B. Stecher, Aaron Hoff, and Paul Johns. 2009. Pathfinder: An online collaboration environment for citizen scientists. In *Proceedings of the 27th ACM Conference on Human Factors in Computing Systems (CHI '09)*, 239–248. (277/1130 = 24.5% acceptance rate)

Brian Magerko, Waleed Manzoul, Mark Riedl, Allan Baumer, Daniel Fuller, [Kurt Luther](#), and Celia Pearce. 2009. An empirical study of cognition and theatrical improvisation. In *Proceedings of the 7th ACM Conference on Creativity and Cognition (C&C '09)*, 117–126. (34/137 = 24.8% acceptance rate)

Kurt Luther and Amy Bruckman. 2008. Leadership in online creative collaboration. In *Proceedings of the 12th ACM Conference on Computer Supported Cooperative Work (CSCW '08)*, 343–352. (86/370 = 23.2% acceptance rate)

Jason B. Ellis, Kurt Luther, Katherine Bessière, and Wendy A. Kellogg. 2008. Games for virtual team building. In *Proceedings of the 7th ACM Conference on Designing Interactive Systems (DIS '08)*, 295–304. (52/152 = 34.2% acceptance rate)

Nicholas Diakopoulos, Kurt Luther, and Irfan Essa. 2008. Audio Puzzler: Piecing together time-stamped speech transcripts with a puzzle game. In *Proceedings of the 16th ACM Conference on Multimedia (MM '08)*, 865–868. (80/236 = 33.9% acceptance rate)

Youn-ah Kang, John Stasko, Kurt Luther, Avinash Ravi, and Yan Xu. 2008. RevisiTour: Enriching the tourism experience with user-generated content. In *Proceedings of the International Conference on Information and Communication Technologies in Tourism (ENTER '08)*. 59–69.

Nicholas Diakopoulos, Kurt Luther, Yevgeniy (Eugene) Medynskiy, and Irfan Essa. 2007. The evolution of authorship in a remix society. In *Proceedings of the 18th ACM Conference on Hypertext and Hypermedia (HT '07)*, 133–136. (33% acceptance rate)

Lightly Refereed Workshop & Position Papers

Anirban Mukhopadhyay*, Sukrit Venkatagiri*, and Kurt Luther. 2022. Towards designing a flexible expert-led crowdsourcing framework for investigating misinformation. *CHI 2022 Workshop on Designing Credibility Tools to Combat Mis/Disinformation: A Human-Centered Approach*, New Orleans, La., USA. 2 pages.

Sukrit Venkatagiri*, Vikram Mohanty*, Tianjiao Yu*, and Kurt Luther. 2021. Sedition Hunters: Countering extremism through collective action. *CSCW 2021 Workshop on Addressing Challenges and Opportunities in Online Extremism Research: An Interdisciplinary Perspective*, virtual conference. 6 pages.

Vikram Mohanty*, Marx Wang*, Manisha Kusuma*, David Thames*, and Kurt Luther. 2020. Find your twin in history: Exploring ethical design challenges in facial recognition. *CSCW 2020 Workshop on Beyond Checklist Approaches to Ethics in Design*, virtual conference. 6 pages.

Kurt Luther. Solving AI's last-mile problem with crowd-augmented expert work. 2019. *AAAI Fall Symposium on Artificial Intelligence and Work (FSS 2019)*, Arlington, Va., USA. 5 pages. (Invited submission)

Sukrit Venkatagiri*, Jacob Thebault-Spieker*, and Kurt Luther. 2019. Designing for coordinated action: Challenges and opportunities of working with experts. *CSCW 2019 Workshop on Mapping the "How" of Collaborative Action*, Austin, Tx., USA. 5 pages.

Aditya Bharadwaj*, David Gwizdala*, Yoonjin Kim, Kurt Luther, and T.M. Murali. 2019. Flud: A hybrid crowd-algorithm approach for visualizing biological networks. *CHI 2019 Workshop on Where is the Human? Bridging the Gap Between AI and HCI*, Glasgow, UK. 4 pages.

Tianyi Li*, Asmita Shah*, Kurt Luther, and Chris North. 2018. Crowdsourcing intelligence analysis with context slices. *CHI 2018 Workshop on Sensemaking in a Senseless World*, Montréal, Canada. 12 pages. (21% acceptance rate for full presentations)

Sukrit Venkatagiri*, Jacob Thebault-Spieker*, Aliza Camacho*, and Kurt Luther. 2018. Localness and urbanness in geographic crowd work. *CSCW 2018 Workshop on Rural Computing: Beyond Access & Infrastructure*, Jersey City, N.J., USA. 7 pages.

Rachel Kohler*, John Purviance*, and Kurt Luther. 2017. GroundTruth: Bringing together experts and crowds for image geolocation. *HCOMP 2017 2nd GroupSight Workshop on Human Computation for Image and Video Analysis*, Quebec City, Canada. 4 pages.

Sneha Mehta*, Chris North, and Kurt Luther. 2016. An exploratory study of human performance in image geolocation tasks. *HCOMP 2016 GroupSight Workshop on Human Computation for Image and Video Analysis*, Austin, Tx., USA. 4 pages.

Kurt Luther, Andrea Kavanaugh, and Michael Horning. 2015. Supporting local news sharing with mobile crowdsourcing and large display technologies. *CSCW 2015 Workshop on Information Technology in City Life*, Vancouver, Canada. 2 pages.

Kurt Luther, Steven Dow, and Aniket Kittur. 2014. How can crowdsourcing help individuals learn? *CSCW 2014 Workshop on Designing Futures for Peer-to-Peer Learning*, Baltimore, Md., USA. 4 pages.

Kurt Luther. 2011. Fast, accurate, and brilliant: Realizing the potential of crowdsourcing and human computation. *CHI 2011 Workshop on Crowdsourcing and Human Computation*, Vancouver, Canada. 4 pages.

Paul André, m.c. schraefel, Alan Dix, Ryen W. White, Michael Bernstein, and Kurt Luther. 2010. Designing for Schadenfreude (or, how to express well-being and see if you're boring people). *CHI 2010 Workshop on Microblogging: What and How Can We Learn From It?*, Atlanta, Ga., USA. 4 pages.

Sarita Yardi, Kurt Luther, Nicholas Diakopoulos, and Amy Bruckman. 2008. Opening the black box: Four views of transparency in remix culture. *CSCW 2008 Workshop on Tinkering, Tailoring, & Mashing: The Social and Collaborative Practices of the Read-Write Web*, San Diego, Calif., USA. 4 pages.

Jason B. Ellis, Kurt Luther, Katherine Bessiere, and Wendy A. Kellogg. 2008. Games for virtual team building. *CSCW 2008 Workshop on Supporting Distributed Team Work*, San Diego, Calif., USA. 10 pages.

Kurt Luther and Nicholas Diakopoulos. Distributed creativity. 2007. *C&C 2007 Workshop on Supporting Creative Acts Beyond Dissemination*, Washington, D.C., USA. 6 pages.

Lightly Refereed Conference Papers (demos, posters, videos, extended abstracts, etc.)

Andreea Sistrunk, Nathan Self, Subhodip Biswas, Kurt Luther, Nervo Verdezoto, and Naren Ramakrishnan. Redistrict: Designing a self-serve interactive boundary optimization system. *ACM Conference on Designing Interactive Systems (DIS 2023)*, Pittsburgh, Pa., USA. (Demo)

Andreea Sistrunk, Subhodip Biswas, Nathan Self, Kurt Luther, and Naren Ramakrishnan. 2022. Redistricting Practices in Public Schools: Social Progress or Necessity? *European Conference on Computer-Supported Cooperative Work (ECSCW 2022)*, Coimbra, Portugal. (Poster)

Vikram Mohanty* and Kurt Luther. 2021. Double-checking history: Designing assessable systems for historical photo identification. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2021)*, virtual conference. (Demo)

Liling Yuan*, Vikram Mohanty*, and Kurt Luther. 2021. SleuthTalk: Identifying historical photos with intelligent shortlists, private collaboration, and structured feedback. *ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2021)*, virtual conference. (Demo)

Vikram Mohanty*, David Thames*, Sneha Mehta*, and Kurt Luther. 2020. Supporting historical photo identification with face recognition and crowdsourced human expertise (extended abstract). In *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI '20)*, 4755–4759. (Invited submission)

Sukrit Venkatagiri*, Jacob Thebault-Spieker*, Sarwat Kazmi*, Efua Akonor*, and Kurt Luther. 2019. It's QuizTime: A study of online verification practices on Twitter. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2019)*, Stevenson, Wash., USA. (Poster)

Jacob Thebault-Spieker*, Sukrit Venkatagiri*, David Mitchell*, Chris Hurt*, and Kurt Luther. 2019. PairWise: Mitigating political bias in crowdsourced content moderation. *AAAI*

Conference on Human Computation and Crowdsourcing (HCOMP 2019), Stevenson, Wash., USA. (Demo, Poster) (**Best Poster/Demo Award**)

Aditya Bharadwaj*, David Gwizdala*, Yoonjin Kim, [Kurt Luther](#), and T.M. Murali. 2019. Flud: A hybrid crowd-algorithm approach for visualizing biological networks. *BioVis COSI at ISMB 2019*, Basel, Switzerland. (Talk, Poster)

Jill M. Derwin, Valerie A. Thomas, Randolph H. Wynne, S. Seth Peery, John Coulston, [Kurt Luther](#), Greg Liknes, and Stacie Bender. 2019. Validating the national-scale remote sensing models using crowdsourced observations. *21st William T. Pecora Memorial Remote Sensing Symposium (Pecora 21) and 38th International Symposium on Remote Sensing of Environment (ISRSE-38)*, Baltimore, Md., USA. (Talk)

Vikram Mohanty*, David Thames*, and [Kurt Luther](#). 2018. Are 1,000 features worth a picture? Combining crowdsourcing and face recognition to identify Civil War soldiers. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2018)*, Zurich, Switzerland. (Demo, Poster) (**Best Poster/Demo Award**)

Vikram Mohanty*, David Thames*, and [Kurt Luther](#). 2018. Photo Sleuth: Combining collective intelligence and computer vision to identify historical portraits. *ACM Conference on Collective Intelligence (CI 2018)*, Zurich, Switzerland. (Talk) (32% acceptance rate for oral presentations)

Rachel Kohler*, John Purviance*, and [Kurt Luther](#). 2018. Geolocating images with crowdsourcing and diagramming. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI '18)*, 5299–5303. (Invited submission)

Sukrit Venkatagiri*, Jacob Thebault-Spieker*, and [Kurt Luther](#). 2018. Verifying truth from the ground: Leveraging human strengths in the image geolocation process. *Human-Computer Interaction Consortium (HCIC 2018) Conference*, Watsonville, Calif., USA. (Poster)

Jill M. Derwin, Valerie A. Thomas, Randolph H. Wynne, S. Seth Peery, John Coulston, [Kurt Luther](#), Greg Liknes, and Stacie Bender. 2018. Validating the 2011 and 2016 NLCD Tree Canopy Cover products using crowdsourced interpretations. *American Geophysical Union (AGU) Fall Meeting 2018*, Washington, D.C., USA. (Poster)

Aditya Bharadwaj*, Divit P. Singh*, Anna Ritz, Alison N. Tegge, Christopher L. Poirel, Pavel Kraikivski, Neil Adames, [Kurt Luther](#), Shiv D. Kale, Jean Peccoud, John J. Tyson, and T. M. Murali. 2017. GraphSpace: Stimulating interdisciplinary collaborations in network biology. *BOSC COSI at ISMB 2017*, Prague, Czech Republic. (Talk)

Rachel Kohler* and [Kurt Luther](#). 2017. Crowdsourced image geolocation as collective intelligence. *Collective Intelligence 2017*, New York, N.Y., USA. (Poster)

[Kurt Luther](#), Amy Pavel, Wei Wu, Jari-lee Tolentino*, Maneesh Agrawala, Björn Hartmann, and Steven P. Dow. 2014. CrowdCrit: Crowdsourcing and aggregating visual design critique. *ACM Conference on Computer Supported Cooperative Work (CSCW 2014)*, Baltimore, Md., USA. (Demo)

[Kurt Luther](#), Nicholas Diakopoulos and Amy Bruckman. 2010. Edits & credits: Exploring integration and attribution in online creative collaboration. *ACM Conference on Human Factors in Computing Systems (alt.chi 2010)*, Atlanta, Ga., USA. (Talk) (Invited submission)

Michael Bernstein, Paul André, [Kurt Luther](#), Erin Treacy Solovey, Erika S. Poole, Sharoda A. Paul, Shaun K. Kane, and Jonathan Grudin. 2009. CHistory. *ACM Conference on Human Factors in Computing Systems (CHI 2009)*, Boston, Mass., USA. (Video) (**Most Entertaining Video Award**)

[Kurt Luther](#) and Amy Bruckman. 2009. Flash collabs: Collaborative innovation networks in online communities of animators. *Conference on Collaborative Innovation Networks (COINS 2009)*, Savannah, Ga., USA. (Talk)

Kurt Luther, Kevin Ziegler*, Kelly E. Caine, and Amy Bruckman. 2009. Predicting successful completion of online collaborative animation projects. *ACM Conference on Creativity and Cognition (C&C 2009)*, Berkeley, Calif., USA. (Poster)

Kurt Luther, Matthew Flaschen*, Andrea Forte, Christopher Jordan, and Amy Bruckman. 2009. Provelt: A new tool for supporting citation in MediaWiki. *International Symposium on Wikis and Open Collaboration (WikiSym 2009)*, Orlando, Fla., USA. (Demo)

Book

Mia Ridge, Samantha Blickhan, Meghan Ferriter, Austin Mast, Ben Brumfield, Brendon Wilkins, Daria Cybulska, Denise Burgher, Jim Casey, Kurt Luther, Michael Haley Goldman, Nick White, Pip Willcox, Sara Carlstead Brumfield, Sonya J. Coleman, and Ylva Berglund Prytz. 2021. *The Collective Wisdom Handbook: Perspectives on Crowdsourcing in Cultural Heritage*. <https://doi.org/10.21428/a5d7554f.1b80974b>

Book Chapter

Amy Bruckman, Kurt Luther, and Casey Fiesler. 2015. When should we use real names in published accounts of internet research? In *Digital Research Confidential: The Secrets of Studying Behavior Online*, Eszter Hargittai and Christian Sandvig (eds.). MIT Press, Cambridge, Mass., USA, 243–258.

Magazine Articles

Author of 33 “Photo Sleuth” articles published in *Military Images* (2015–Present). Indexed on JSTOR: <https://www.jstor.org/journal/militaryimages>

Kurt Luther. Human computation for image and video analysis. 2018. *AI Magazine* 39, 4: 67–68. (Invited submission)

Kurt Luther and Amy Bruckman. 2011. Leadership and success factors in online creative collaboration. *IEEE Potentials* 30, 5: 27–32. (Invited submission)

Technical Reports

Edward J.K. Gitre and Kurt Luther. 2018. The American Soldier collaborative digital archive. White paper for grant PW-253766-17, National Endowment for the Humanities. 34 pages.

Alvin Yuan, Kurt Luther, Marcus Krause, Steven P. Dow, and Björn Hartmann. 2015. Worker expertise and expert rubrics in crowdsourced design critique. UCB/EECS-2015-223, University of California, Berkeley. 14 pages.

Wei Wu, Kurt Luther, Amy Pavel, Björn Hartmann, Steven P. Dow, and Maneesh Agrawala. 2013. CrowdCritic: Strategies for crowdsourcing visual design critique. UCB/EECS-2013-95, University of California, Berkeley. 36 pages.

Nicholas Diakopoulos, Kurt Luther, Yevgeniy “Eugene” Medynskiy, and Irfan Essa. 2007. Remixing authorship: Reconfiguring the author in online video remix culture. GIT-IC-07-05, Georgia Institute of Technology. 10 pages.

Other Publication

Kurt Luther, Andrea Kavanaugh, Jacob Thebault-Spieker, and Judd Antin. 2020. Introduction to the special issue on negotiating truth and trust in socio-technical systems. *ACM Transactions on Social Computing* 3, 1: 1:1–1:2.

OTHER
RESEARCH
ACTIVITIES

Workshops & Panels Co-Organized

Nitesh Goyal, Sungsoo Ray Hong, Regan L. Mandryk, Toby Jia-Jun Li, Kurt Luther, and Dakuo Wang. 2023. SHAI 2023: Workshop on designing for safety in human-AI interactions. *ACM Conference on Intelligent User Interfaces (IUI 2023)*, Sydney, Australia.

Aaron Brantly, Charles Clancy, Chad Levinson, and Kurt Luther. 2019. Social computing and its impact on intelligence. *Emerging Trends: New Tools, Threats, and Thinking*, Arlington, Va., USA.

Nai-Ching Wang*, David Cline, David Hicks, Kurt Luther, Kelly McPherson, Craig Perrier, and Paul Quigley. 2018. The design, development and implementation of funded transdisciplinary digital history projects: Illustrative cases of K-16 collaboration in action. *132nd Annual Meeting of the American Historical Association (AHA 2018)*, Washington, D.C., USA.

Danna Gurari, Kurt Luther, Geneviève Patterson, and Steve Branson. 2017. GroupSight: The 2nd workshop on human computation for image and video analysis. *AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2017)*, Québec City, Canada.

Paul Quigley, Kurt Luther, David Hicks, Daniel Newcomb, and Nai-Ching Wang*. 2016. New directions for inquiry: Citizen student archivists crowdsourcing the past. *96th Annual Conference of the National Council for the Social Studies (NCSS 2016)*, Washington, D.C., USA.

David Hicks, Kurt Luther, and Paul Quigley. 2016. Crowdsourcing the history of American Independence Day in Civil War-era Virginia. *2016 Virginia Forum*, Williamsburg, Va., USA.

Eric Cook, Kurt Luther, Dan Perkel, and Jeff Bardzell. 2011. The creativity agenda in the iSchool context. *iConference 2011*, Seattle, Wash., USA.

Jenn Thom-Santelli, Eric Cook, Kurt Luther, Amy Bruckman, Jeff Bardzell, and David McDonald. 2010. Approaching “amateur.” *ACM Conference on Supporting Group Work (GROUP 2010)*, Sanibel Island, Fla., USA.

Dan Perkel, Lyndsay Grant, Becky Herr-Stephenson, and Kurt Luther. 2010. Rules of engagement in participatory cultures: Negotiating feedback, audiences and critique in online communities. *Conference on Digital Media and Learning (DML 2010)*, La Jolla, Calif., USA.

David Ayman Shamma, Dan Perkel, and Kurt Luther. 2009. Understanding the creative conversation: Modeling to engagement. *ACM Conference on Creativity and Cognition (C&C 2009)*, Berkeley, Calif., USA.

Doctoral Consortia

CHI 2010 Doctoral Consortium, Atlanta, Ga., USA. (26% acceptance rate)
GROUP 2009 Doctoral Consortium, Sanibel Island, Fla., USA.

Research Camps

I-Corps: National Science Foundation Innovation Corps
National Program, Southwest Node, March 14–April 26, 2022 (**People’s Choice Award**)
Regional Program, Mid-Atlantic Hub, January 4–21, 2022

Agile Research University
Northwestern University, Evanston, Ill., USA, November 27–29, 2017

CrowdCamp: Rapidly Iterating Ideas for Collective Intelligence and Crowdsourcing
HCOMP 2015 Workshop, San Diego, Calif., USA, November 9, 2015
CSCW 2013 Workshop, San Antonio, Tx., USA, February 23–24, 2013
CHI 2012 Workshop, Austin, Tx., USA, May 5–6, 2012

CSST: Summer Research Institute for the Science of Socio-Technical Systems
CSST 2012, Santa Fe, N.M., USA, July 29–August 2, 2012

THATCamp: The Humanities and Technology Camp
Virginia Tech, Blacksburg, Va., USA, April 10–11, 2015
Chatham University, Pittsburgh, Pa., USA, October 5–6, 2013
George Mason University, Fairfax, Va., USA, June 7–8, 2013

INVITED TALKS Military Archives Section, Society of American Archivists Annual Meeting, 2023
Human-in-the-Loop Science Summer Seminar Series, Amazon Web Services, 2023
Virtual Teacher Institute, American Battlefield Trust, 2023
26th Annual Family History Institute, Wythe Co. (Va.) Genealogical and Historical Assoc., 2023
Cybersecurity/AI Colloquia, University of North Dakota, 2023
Dept. of Computer Science, Emory University, 2022
Sacred Trust Talks, Gettysburg National Military Park and Gettysburg Foundation, 2022
Behind the Scenes of the City Conference, Stockholm City Museum, 2021
29th Annual Civil War Weekend, Virginia Tech, 2021
4th IEEE Workshop on Human-in-the-Loop Methods and Future of Work in BigData, 2020
ACM SIGGRAPH Frontiers Talks, 2020
AAAI Fall Symposium on Artificial Intelligence and Work, 2019
CASCI Speaker Series, University of Maryland College Park, 2019
The Washington Post, 2019
Machine Learning + Libraries Summit, Library of Congress, 2019
Emerging Scholars Series, American Civil War Museum, 2019
Dept. of Computer and Information Science, IUPUI, 2019
DUB (Design, Use, Build) Seminar, University of Washington, 2019
Dept. of Computer and Information Sciences, Virginia Military Institute, 2018
Bellingcat Open Source Investigation Workshop, 2018
18th Annual Image of War Seminar, Center for Civil War Photography, 2018
War Stories: Symposium on Conflict and Civic Engagement, Indiana University, 2018
Segal Distinguished Seminar, Northwestern University, 2017
HCI Seminar, Stanford University, 2017
Crowdsourcing Seminar, Carnegie Mellon University, 2017
Nau Center for Civil War History, University of Virginia, 2016
25th Annual Civil War Weekend, Virginia Tech, 2016
HCI Lab, University of Maryland College Park, 2015
Willson Center Digital Humanities Lab, University of Georgia, 2015
Virginia Center for Civil War Studies, Virginia Tech, 2014
Dept. of Computer Science, Virginia Tech, 2014
Engineering Design, Penn State University, 2014
Dept. of Computer Science, University of Illinois at Urbana-Champaign, 2014
Dept. of Computer Science & Engineering, University of Minnesota, 2014
Dept. of Media and Information, Michigan State University, 2014
Dept. of Computer Science, University of Colorado Boulder, 2014
School of Information, University of Michigan, 2013
Crowdsourcing Seminar, Carnegie Mellon University, 2013
Google Research, 2012
Dept. of Computer Graphics Technology, Purdue University, 2012
GVU Center Brown Bag Seminar, Georgia Tech, 2012
Social Computing Lab, Carnegie Mellon University, 2012
MIT Media Lab, 2011

TEACHING **As Instructor of Record at Virginia Tech**
CS3744: Introduction to GUI Programming and Graphics (undergraduate)
Spring 2016 (81 students); Theme: Social Media
Fall 2016 (57 students); Theme: Social Media
Spring 2018 (101 students); Theme: Digital History
Fall 2018 (42 students [all remote]); Theme: Social News and Misinformation
Fall 2019 (65 students [all remote]); Theme: Social News and Misinformation
CS4784: Human-Computer Interaction Capstone (undergraduate)
Spring 2015 (21 students); Theme: Social Computing and Creativity

CS4984/PSCI4984/CS5984: Open Source Intelligence Lab (undergraduate/graduate)
Spring 2021 (45 students [all remote]); Theme: Dis- and Misinformation
Fall 2021 (21 students [all remote]); Theme: Dis- and Misinformation

CS5774: User Interface Software (graduate)
Fall 2014 (20 students); Theme: Social Media
Fall 2016 (23 students); Theme: Social Media
Fall 2018 (23 students [hybrid; 16 remote]); Theme: Social News and Misinformation
Fall 2020 (26 students [all remote]); Theme: Social News and Misinformation
Fall 2021 (68 students); Theme: Social News and Misinformation
Fall 2023 (TBD students); Theme: TBD

CS6724: Advanced Topics in Human-Computer Interaction (graduate)
Fall 2015 (9 students); Theme: Crowdsourcing and Human Computation
Fall 2017 (8 students); Theme: Investigative Technologies in Society
Spring 2020 (19 students); Theme: Human-AI Interaction

As Instructor of Record at Virginia Military Institute

CIS479: Open Source Intelligence (undergraduate)
Fall 2021 (10 cadets); Theme: Dis- and Misinformation

As Graduate Teaching Assistant at Georgia Tech

CS6470: Design of Online Communities (graduate)
Spring 2009 (22 students); Instructor: Amy Bruckman

ADVISING & MENTORING

Postdoctoral Associate

Jacob Thebault-Spieker, 2018–2020
First employment: Assistant Professor, University of Wisconsin–Madison
HCOMP Best Demo Award, 2019
Participant, NSF CSST Summer Research Institute, 2019

Research Associates

Jing Cui, Software Engineer, 2018 (Co-supervised with T. M. Murali)
Peter Hauck, Senior Research Scientist, 2017

Graduate Thesis Advisees

Vikram Mohanty, Ph.D. Computer Science, Virginia Tech
Expected graduation: Summer 2023
Dr. Dennis G. Kafura Graduate Fellowship in Computer Science, 2023
CHI Best Paper Honorable Mention Award, 2023
Research Intern, Toyota Research Institute, 2022
Research Intern, VSCO, 2021
Data Science Intern, Dataminr, 2019
IUI Best Paper Award, 2019
HCOMP Best Demo Award, 2018

Tianjiao Yu, Ph.D. Computer Science, Virginia Tech (Co-advised with Ismini Lourentzou)
Expected graduation: Spring 2025

Fei Shan, Ph.D. Computer Science, Virginia Tech
Expected graduation: Spring 2025

Anirban Mukhopadhyay, Ph.D. Computer Science, Virginia Tech
Expected graduation: Fall 2025
Software Engineering Intern, Microsoft, 2023
Software Engineering Intern, Microsoft, 2022

Matthew Wilchek, Ph.D. Computer Science, Virginia Tech (Co-advised with Feras Batarseh)
Expected graduation: Spring 2026

Jude Lim, M.S. Computer Science, Virginia Tech
Graduated in 2023

Terry Dodson, M.S. Computer Science, Virginia Tech
Graduated in 2023
First employment: Firmware Developer, IBM
New Horizons Graduate Scholar and GEM Fellow

Sukrit Venkatagiri, Ph.D. Computer Science, Virginia Tech
Graduated in 2022
First employment: Postdoc, U. Washington and Assistant Professor, Swarthmore College
Student Member, ACM CSCW Steering Committee, 2022
UX Research Intern, Facebook, 2021
Research Intern, Microsoft Research, 2020
HCOMP Best Demo Award, 2019
Graduate Fellow, Rita Allen Foundation Misinformation Solutions Forum, 2018

Manisha Kusuma, M.S. Computer Science, Virginia Tech
Graduated in 2021
First employment: Software Engineer, Microsoft

Yasmine Belghith, M.S. Computer Science, Virginia Tech
Graduated in 2021
First employment: Human-Centered Computing Ph.D. Student, Georgia Tech

Liling Yuan, M.S. Computer Science, Virginia Tech
Graduated in 2021
First employment: Software Engineer, Microsoft

Aditya Bharadwaj, Ph.D. Computer Science, Virginia Tech (Co-advised with T.M. Murali)
Graduated in 2020
First employment: Research Scientist, B12
Participant, HCOMP Doctoral Consortium, 2019
Research Intern, B12, 2018

Tianyi Li, Ph.D. Computer Science, Virginia Tech (Co-advised with Chris North)
Graduated in 2020
First employment: Assistant Professor, Loyola University Chicago
Participant, CSCW Doctoral Consortium, 2019
Research Intern, Microsoft Research, 2019
Pratt Fellow, 2019

Nai-Ching Wang, Ph.D. Computer Science, Virginia Tech
Graduated in 2018
First employment: Software Engineer, Akuna Capital
Participant, HCOMP Doctoral Consortium, 2016
Finalist, CHI Student Research Competition, 2016

Rachel Kohler, M.S. Computer Science, Virginia Tech
Graduated in 2017
First employment: Software Engineer, BNSF Railway
HCOMP Notable Paper Award, 2017
William Preston Society Master's Thesis Award (STEM category), 2017

Divit Singh, M.S. Computer Science, Virginia Tech (Co-advised with T.M. Murali)
Graduated in 2016
First employment: Software Engineer, Bloomberg

Graduate Thesis Committees

Stephanie Travis, Ph.D. Computer Science, Virginia Tech
Eslam Hussein, Ph.D. Computer Science, Virginia Tech
Andreea Sistrunk, Ph.D. Computer Science, Virginia Tech
Morva Saaty, Ph.D. Computer Science, Virginia Tech
Donghan Hu, Ph.D. Computer Science, Virginia Tech
Akshita Jha, Ph.D. Computer Science, Virginia Tech
MD Momen Bhuiyan, Ph.D. Computer Science, Virginia Tech
Boyuan (Marx) Wang, M.S. Computer Science, Virginia Tech (Graduated 2023)
Zhen Guo, Ph.D. Computer Science, Virginia Tech (Graduated 2023)
Stephen Wei-Hao Sun, M.S. Computer Science, Virginia Tech (Graduated 2022)
Jill Derwin, Ph.D. Forestry and Remote Sensing, Virginia Tech (Graduated 2022)
Leanna Ireland, Ph.D. Sociology, Virginia Tech (Graduated 2021)
Juliet Clark, M.S. Computer Science, Virginia Tech (Graduated 2021)
Arul Thileeban Sagayam, M.S. Computer Science, Virginia Tech (Graduated 2021)
Sushmethaa Muhundan, M.S. Computer Science (Graduated 2021)
Moeti Masiane, Ph.D. Computer Science, Virginia Tech (Graduated 2020)
Zijian Xu, M.S. Computer Science, Virginia Tech (Graduated 2020)
Setor Zilevu, M.S. Computer Science, Virginia Tech (Graduated 2019)
Sarang Joshi, M.S. Computer Science, Virginia Tech (Graduated 2018)
Michael Stewart, Ph.D. Computer Science, Virginia Tech (Graduated 2018)
Andrey Esakia, Ph.D. Computer Science, Virginia Tech (Graduated 2018)
Katelyn Brown, M.A. History, Virginia Tech (Graduated 2018)
Anamary Leal, Ph.D. Computer Science, Virginia Tech (Graduated 2017)
Hannah Roth, M.S. Computer Science, Virginia Tech (Graduated 2017)
Daniel Newcomb, M.A. History, Virginia Tech (Graduated 2017)
Chris Frisina, M.S. Computer Science, Virginia Tech (Graduated 2016)
Maoyuan Sun, Ph.D. Computer Science, Virginia Tech (Graduated 2016)
Sanchit Chandra, M.S. Computer Science, Virginia Tech (Graduated 2015)
Nathan Self, M.S. Computer Science, Virginia Tech (Graduated 2015)
Jessica Zeitz Self, Ph.D. Computer Science, Virginia Tech (Graduated 2016)

Undergraduate Research Advisees and Interns

Note: Surnames of Hume Center students are obscured for privacy reasons.

Sai Krishna Yeshala, B.S. Computer Science, Virginia Tech, 2021
T.K. T., B.S. Computer Engineering, Virginia Tech, 2021
Skyler S., B.S. Computer Engineering, Virginia Tech, 2021
Tyler T., B.S. Computer Engineering, Virginia Tech, 2021
Ben Z., B.S. Business Information Technology, Virginia Tech, 2021
Taylor R., B.S. National Security and Foreign Affairs, Virginia Tech, 2021
Matthew M., B.S. National Security and Foreign Affairs, Virginia Tech, 2021
Sophia P., B.S. Computer Science, Virginia Tech, 2020–2021
Raymar R., B.S. Data-Centric Computing, Virginia Tech, 2020–2021
Yunis H., B.S. Computational Modeling and Data Analytics, Virginia Tech, 2020–2021
Alex H., B.S. Business Information Technology, Virginia Tech, 2020–2021
Chris C., B.S. Computer Science, Virginia Tech, 2020–2021
Ryan B., B.S. Cybersecurity Management and Analytics, Virginia Tech, 2020–2021
Emily A., B.S. Computer Engineering, Virginia Tech, 2020–2021
Clarissa M., B.S. National Security and Foreign Affairs, Virginia Tech, 2020–2021
Mariela J., B.S. Computer Science, Virginia Tech, 2020–2021
Katie F., B.S. National Security and Foreign Affairs, Virginia Tech, 2020–2021
Brandon N., B.S. National Security and Foreign Affairs, Virginia Tech, 2020–2021
Boyuan (Marx) Wang, B.S. Data-Centric Computing, Virginia Tech, 2020
Xavier Pleimling, B.S. Computer Science & B.S. Mathematics, Virginia Tech, 2020
Paul Blackburn, B.S. Computer Science, Virginia Tech, 2020
Chanaka Perera, B.S. Computer Science, Virginia Tech, 2020

Efua Akonor, B.S. Computer Science, Wellesley College, 2019
 Sarwat Kazmi, B.S. Information Science & B.A. Government & Politics, U. Maryland, 2019
 David Mitchell, B.S. Computer Science, UIUC, 2019
 Puriwat Lahpong, B.S. Computer Science, Virginia Tech, 2019
 Daniel Ocheltree, B.S. Computer Science, Virginia Tech, 2019
 Chris Hurt, B.S. Computer Science, Virginia Tech, 2018–2019
 Chandler Manns, B.S. Computer Science, Virginia Tech, 2018–2019
 Kareem Abdol-Hamid, B.S. Computer Science, Virginia Tech, 2018
 Ben Hinkle, B.S. Computer Science, Virginia Tech, 2018
 Levi Shipley, B.S. Computer Science, Virginia Tech, 2018
 Aliza Camacho, B.A. Computer Science & B.A. Anthropology, Wellesley College, 2018
 Ryan Russell, B.S. Computer and Information Science, Virginia Military Institute, 2018
 Natalie Robinson, B.A. History & B.A. Public Relations, University of Georgia, 2018
 Anne Hoang, B.S. Computer Science, Virginia Tech, 2018
 David Thames, B.S. Computer Science, Virginia Tech, 2017–2018
 Asmita Shah, B.S. Computer Science, Virginia Tech, 2017–2018
 Shahmir Ahmed, B.S. Computer Science, Virginia Tech, 2017
 Liyan Li, B.S. Computer Science, Virginia Tech, 2017
 Caroline Ritchey, B.A. National Security & B.A. History, Virginia Tech, 2017
 Parker Irving, B.S. Computer Science, Virginia Tech, 2017
 Allison Collier, B.S. Computer Science, Virginia Tech, 2017
 Nam Nguyen, B.S. Computer Science, Virginia Tech, 2017
 David Gwizdala, B.S. Computer Engineering, Virginia Tech, 2016–2017
 Wenfeng Ren, B.S. Computer Science, Virginia Tech, 2016
 Melanie Trammell, B.S. Computer Science, Virginia Tech, 2016
 Zhizheng (Andy) Chen, B.S. Computer Science, Virginia Tech, 2015
 Amit Dayal, B.S. Computer Science, Virginia Tech, 2015
 Jared Deiner, B.S. Computer Science, Virginia Tech, 2015
 Vijay Kuruvilla, B.S. Computer Science, Virginia Tech, 2015
 Edward McEnrue, B.S. Computer Science, Virginia Tech, 2015
 Avanti Dabholkar, B.S. HCI & B.Arch. Architecture, CMU, 2013–2014
 Bhawna Agarwal, B.Design, Indian Institute of Technology Guwahati, 2014
 Jari-lee (Jay) Tolentino, B.S. Informatics & B.A. Studio Art, UC Irvine, 2013

PROFESSIONAL
SERVICE

Conference Organizing Committees

Posters and Demos Co-Chair, AAAI HCOMP 2023 and ACM CI 2023
 Doctoral Consortium Mentor, ACM CSCW 2023
 General and Program Co-Chair, AAAI HCOMP 2021
 Demos Co-Chair, ACM CSCW 2021
 Papers Co-Chair and Best Paper Committee Chair, ACM C&C 2019
 Program Co-Chair, ACM CI 2018
 Chair, Virginia Tech Workshop on Designing Socio-Technical Systems of Truth, 2018
 Graduate Student Symposium Co-Chair, ACM C&C 2017
 Doctoral Consortium Mentor, AAAI HCOMP 2017
 Videos Co-Chair, ACM CHI 2016
 Posters Coordinator, ACM SIGGRAPH 2013
 Posters Coordinator, ACM SIGGRAPH 2012
 Local Arrangements Co-Chair, ACM C&C 2011
 Graphic Design Chair & Webmaster, ACM CSCW 2011
 Student Volunteers Co-Chair, ACM CHI 2010
 Graphic Design Chair & Webmaster, ACM CSCW 2010
 Presentations Coordinator, Computer Animation Festival, ACM SIGGRAPH 2009

Technical Program Committees

Associate Chair (Papers), ACM CHI 2021
 PC Member, Workshop on Data-driven Humanitarian Mapping, ACM KDD 2021

Associate Chair (Papers), ACM CSCW 2020
Associate Chair (Papers), ACM CHI 2020
Associate Chair (Papers) and Best Paper Committee Member, AAAI HCOMP 2019
Program Committee Member, Conference on Truth and Trust Online (TTO) 2019
Associate Chair (Papers), ACM CSCW 2018 [Online First]
Program Committee Member, ACM CI 2017
Program Committee Member, AAAI HCOMP 2017
Associate Chair (Papers), ACM CSCW 2016
Program Committee Member, AAAI HCOMP 2016
Senior Program Committee Member, AAAI ICWSM 2016
Associate Chair (Papers), ACM C&C 2015
Associate Chair (Papers), ACM CSCW 2015
ACM Student Research/Design Competition Juror, ACM CHI 2014
PC Member, Workshop on Volunteer-Based Crowdsourcing, AAAI HCOMP 2014
ACM Student Research/Design Competition Juror, ACM CHI 2013
Associate Chair (Videos), ACM CHI 2013
General Submissions & Late Breaking Juror, ACM SIGGRAPH 2013
Associate Chair (Videos), ACM CHI 2012
General Submissions & Late Breaking Juror, ACM SIGGRAPH 2012
Associate Chair (Works-in-Progress), ACM CHI 2012
Associate Chair (Videos), ACM CHI 2011
Associate Chair (Works-in-Progress), ACM CHI 2011
Program Committee Member, WikiSym 2011

Journal Associate Editor

Lead Guest Editor, Special Issue on Negotiating Truth and Trust in Socio-Technical Systems,
ACM Transactions on Social Computing, 2020

Conference External Reviewer

Note: † indicates one Excellent Review recognition.

CHI: 2008, 09, 10, 11, 12, 13, 14††, 15††, 16†, 17, 18†, 19

C&C: 2007, 09, 13, 17

CSCW: 2008, 10, 11, 12, 13, 14, 15†, 16†, 18, 19, 21, 23

DIS: 2017

ICWSM: 2021

MobileHCI: 2017

SIGGRAPH: 2009, 12, 13

Ubicomp: 2012

UIST: 2010, 12, 13, 14

VAST: 2018

Journal or Magazine Reviewer

ACM Journal on Computing and Cultural Heritage

ACM Transactions on Computer–Human Interaction

ACM Transactions on Interactive Intelligent Systems

American Behavioral Scientist

Communications of the ACM

Games and Culture

Human–Computer Interaction

IEEE Computer

Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies

Transformative Works and Cultures

Book Proposal Reviewer

Oxford University Press, 2019
Cambridge University Press, 2017

Grant Advisory Board Member

City Faces: Visual culture and social structure in Stockholm, 1880-1930. Swedish Research Council, Rebecka Lennartsson (PI), SEK 12,091,000 (≈\$1,440,000), 2021–2026.

VTArtWorks. Doris Duke Charitable Foundation, Robert Leonard (PI), \$222,824, 2015–2020.

Virginia Tech

Innovation Campus

Co-Chair, Intelligent Interfaces Faculty Search Committee, 2023
Member, Faculty Advisory Committee, 2022–Present

National Security Institute

Faculty Affiliate, 2022–2025
Faculty Affiliate, Hume Center for National Security and Technology, 2017–2022

Faculty Fellow, Institute for Creativity, Arts, and Technology, 2015–Present

Center for Human-Computer Interaction

Associate Director for Research, 2022–Present
Member, Executive Committee, 2020–Present
Faculty Affiliate, 2014–Present
Associate Director for Social Informatics, 2015–2016

Center for Future Work Places and Practices

Member, Executive Committee, 2023
Member, Organizing Committee, 2021–2022

Department of Computer Science

Member, Graduate Program Committee, 2018–2021
Member, Personnel (Promotion & Tenure) Committee, 2020
Member, Ph.D. Qualifier Exam Committee (HCI Area), 2018, 2023
Member, Faculty Search Committee, 2016, 2017, 2018

Department of History

Faculty Affiliate, 2016–Present
Member, Faculty Search Committee, 2020

Human-Centered Design Interdisciplinary Graduate Education Program

Faculty Affiliate, 2015–Present
Member, Executive Committee, 2016–2018

Faculty Affiliate, Tech4Humanity Lab, 2020–Present

Faculty Affiliate, Tech for Humanity Initiative, 2019–Present

Faculty Affiliate; Information, Trust, and Society Initiative; 2018–2019

Member, Space Subcommittee, Creativity & Innovation Strategic Growth Area, 2016–2017

Carnegie Mellon University

Coordinator, Social Computing Lab Summer REU Program, 2013

Georgia Tech

Lab Manager, Electronic Learning Communities Lab, 2007–2012

Reviewer, President's Undergraduate Research Awards, 2011

Member, School of Interactive Computing Faculty Search Committee, 2010

Judge, Undergraduate Research Spring Symposium, 2010–2011

Other Service

AAAI HCOMP Steering Committee, 2022–Present
Review Panelist, National Science Foundation, 2016, 2017(×2), 2018, 2019, 2021
Technical Advisor, *Wisdom of the Crowd* CBS television series, 2017
Technical Advisor, Center for Virtual History, University of Georgia, 2011–2015
Editor-at-Large, *Digital Humanities Now*, 2013

Professional Memberships

Member, Association for the Advancement of Artificial Intelligence (AAAI)
Senior Member, Association for Computing Machinery (ACM)
Member, Military Cyber Professionals Association (MCPA)

SELECTED
MEDIA
COVERAGE

Vice: Twitch influencers ruined r/Place for everyone, 2022
<https://www.vice.com/en/article/qjb53p/twitch-influencers-ruined-rplace-for-everyone>

C-SPAN: Civil War Photographs as Resources, 2021
<https://www.c-span.org/video/?519483-1/civil-war-resources-clothing-ammunition>

PolitiFact: Image mocks a Tesla recharging with a generator. Here's what it doesn't show, 2021
<https://www.politifact.com/article/2021/nov/12/image-mocks-tesla-recharging-generator-heres-what/>

The HISTORY Channel: *History's Greatest Mysteries*: "The Escape of John Wilkes Booth," 2020
<https://www.history.com/shows/historys-greatest-mysteries/season-1/episode-4>

PolitiFact: No evidence Joe Biden's great-grandfather was Confederate soldier, enslaved people, 2020
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