




Eugenia H. Rho

Virginia Tech Department of Computer Science
220 Gilbert Street
Blacksburg, VA, 24060

 [eugenia\[at\]vt\[dot\]edu](mailto:eugenia[at]vt[dot]edu)
 [@eugeniarho](https://twitter.com/eugeniarho)
 eugeniarho.com

Research Interests: Human-Computer Interaction (HCI), Natural Language Processing (NLP), Human-AI Interaction, Statistics, Machine Learning (ML), Computational Social Science, Social Computing.

APPOINTMENTS

Department of Computer Science, Virginia Tech Assistant Professor Director of Society + AI and Language (SAIL) Research Lab Core Faculty, Sanghani Center for Artificial Intelligence Affiliate Faculty, Virginia Tech Center for Autism Research Affiliate Faculty, Center for Human-Computer Interaction	2020 – 2021
Meta (Facebook), Menlo Park, CA Research Intern	2017
NORC at the University of Chicago, Chicago, IL Data Science Intern	2016
University of California, Irvine, Irvine CA Graduate Research Assistant	2016
PricewaterhouseCoopers, Seoul, South Korea Consultant	2013 – 2014
Opera Solutions, New York, NY Management Consultant	2011 – 2012

EDUCATION

Department of Computer Science, Stanford University, Palo Alto, CA Post-doctoral Researcher, Stanford NLP Group <i>Advisor: Dan Jurafsky; Co-Advisor: Jennifer Eberhardt</i>	2020 – 2021
School of Information & Computer Sciences, University of California, Irvine, CA Ph.D. in Informatics <i>Thesis: Design of Online Environments and the Quality of Democratic Discourse At-Scale</i> <i>Committee: Melissa Mazmanian (chair), Judy Olson, Kai Zheng</i>	2015 – 2020
Columbia University (Columbia College), New York, NY B.A. in Political Science, Dean’s List	2007 – 2011

GRANTS, FELLOWSHIPS, HONORS

CAREER: AI-Mediated Communication (AIMC) Support for Neurodiverse-Neurotypical (ND-NT) Conversations: From Bias Detection to Inclusive Interventions Role: PI; \$681,096, NSF (Pending)	2024
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CAITLIN: Conversational AI for Technical Interview Learning to Enhance Computing Education 2024 Role: PI; \$2.95M, Institute of Education Sciences (Pending)	
Designing Large Language Models as a Mental Health Resource for Autistic Adults Role: PI; \$45,000, World Health Consortium (Funded)	2024
Enhancing the Privacy of Users with Disabilities Through Transparent Web Advertisement Role: Co-PI; \$75,000, Commonwealth Cyber Initiative (Funded)	2024
Integrating Neurodivergence into the STEM Workforce Role: Co-PI; \$75,000, Oak Ridge Associated Universities (Funded)	2023
Empathy-Driven Human-AI System for Countering Negative-Self Talk for Autistic Adults Role: PI; \$25,000, Center for Human-Computer Interaction, Virginia Tech (Funded)	2023
Understanding Linguistic Patterns in COVID-19 Public Health Discourse Role: PI; \$15,000, Center for Peace Studies and Violence Prevention, Virginia Tech (Funded)	2021
ACM CHI Best Paper Honorable Mention	2020
Kling Endowed Memorial Fellowship	2020
Doctoral Consortium Fellowship	2019
Roberta Ellen Lamb Memorial Fellowship	2018
Graduate Dean's Recruitment Fellowship	2015

PUBLICATIONS

Journals and Conference Papers

† Indicates first authorship by PhD/MS student advised by me as the principal investigator

[P18]

Counterquill: Investigating the Potential of Human-AI Collaboration in Online Counterspeech Writing

Xiaohan Ding, Kaike Ping, Uma Sushmitha Gunturi, Buse Carik, Ms Sophia Stil, Lance T Wilhelm, Taufiq Daryanto, Dr James Hawdon, Sang Won Lee, and **Eugenia H. Rho**†.

ACM Transactions on Computer-Human Interaction (TOCHI), 2025 (Under Review)

[P17]

Exploring Large Language Models Through a Neurodivergent Lens: Use, Challenges, Community-Driven Workarounds, and Concerns

Buse Carik, Kaike Ping, Xiaohan Ding, **Eugenia H. Rho**†.

ACM International Conference on Supporting Group Work (GROUP), 2025 (Accepted)

- [P16] **Conversate: Supporting Reflective Learning in Interview Practice Through Interactive Simulation and Dialogic Feedback**
 Taufiq Daryanto, Xiaohan Ding, Lance T Wilhelm, Sophia Stil, Kirk Knutsen, and **Eugenia H. Rho**†.
ACM International Conference on Supporting Group Work (GROUP), 2025 (Accepted)
- [P15] **Perceiving and Countering Hate: The Role of Identity in Online Responses**
 Kaike Ping, James Hawdon, **Eugenia H. Rho**†.
ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW), 2025 (Accepted)
- [P14] **Behind the Counter: Exploring the Motivations and Barriers of Online Counterspeech Writing and the Potential for AI-Mediated Assistance**
 Kaike Ping, Anisha Kumar, **Eugenia H. Rho**†.
ACM Transactions on Computer-Human Interaction (TOCHI), 2025 (Accepted)
- [P13] **Leveraging Prompt-Based Large Language Models: Predicting Pandemic Health Decisions and Outcomes Through Social Media Language**
 Xiaohan Ding, Buse Carik, Uma Gunturi, Valerie Reyna, **Eugenia H. Rho**†.
ACM Conference on Human Factors in Computing Systems (CHI), 2024
- [P12] **A Design Space for Intelligent and Interactive Writing Assistants**
 Mina Lee, Katy Ilonka Gero, John Joon Young Chung, Simon Buckingham Shum, Vipul Raheja, Hua Shen, Subhashini Venugopalan, Thiemo Wambsganss, David Zhou, Emad A. Alghamdi, Tal August, Avinash Bhat, Madiha Zahrah Choksi, Senjuti Dutta, Jin L.C. Guo, Md Naimul Hoque, Yewon Kim, Simon Knight, Seyed Parsa Neshaei, Agnia Sergeyuk, Antonette Shibani, Disha Shrivastava, Lila Shroff, Jessi Stark, Sarah Sterman, Sitong Wang, Antoine Bosselut, Daniel Buschek, Joseph Chee Chang, Sherol Chen, Max Kreminski, Joonsuk Park, Roy Pea, **Eugenia H. Rho**, Shannon Zejiang Shen, Pao Siangliulue.
ACM Conference on Human Factors in Computing Systems (CHI), 2024
- [P11] **Why Did You Post That GIF? Understanding the Relationship between User Identity and Self-Expression through GIFs on Social Media**
 Marx B Wang, Md Momen Bhuiyan, **Eugenia H. Rho**, Kurt Luther, Sang Won Lee.
ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW), 2024
- [P10] **Understanding the Linguistic Signature of Acts and Recalls of Online Racial Microaggressions through Interpretable NLP**
 Uma Gunturi, Anisha Kumar, Xiaohan Ding, **Eugenia H. Rho**†.
ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW), 2024
- [P9] **Escalated Police Stops of Black Men Are Linguistically and Psychologically Distinct in Their Earliest Moments**
Eugenia H. Rho, Maggie Harrington, Yuyang Zhong, Reid Pryzant, Nicholas P. Camp, Dan Jurafsky, Jennifer L. Eberhardt.
Proceedings of the National Academy of Sciences (PNAS), 2023
- [P8] **Same Words, Different Meanings: Interpretable Predictions of Polarization Trends in Broadcast Media Language and Granger Causal Effects on Online Public Discourse**
 Xiaohan Ding, Mike Horning, **Eugenia H. Rho**†.
AAAI Conference on Web and Social Media (ICWSM), 2023

- [P7] **Cultural Differences in the Effects of Contextual Factors and Privacy Concerns on Users' Privacy Decision on Social Networking Sites**
Yao Li, **Eugenia H. Rho**, and Alfred Kobsa.
Journal of Behavior and Information Technology, 2020
- [P6] **Political Hashtags and the Lost Art of Democratic Discourse**
Eugenia H. Rho and Melissa Mazmanian.
ACM Conference on Human Factors in Computing Systems (CHI), 2020, Best Paper Honorable Mention
- [P5] **Hashtag Burnout? An Experimental Study Investigating How Political Hashtags Shape Reactions to News Content**
Eugenia H. Rho and Melissa Mazmanian.
ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW), 2019
- [P4] **Moral and Affective Differences in U.S. Immigration Policy Debate on Twitter**
Ted Grover, Elvan Bayraktaroglu, Gloria Mark, and **Eugenia Ha Rim Rho**.
Journal of Computer Supported Cooperative Work Vol 28, Issue:3-4, 2019, p. 317-355
- [P3] **Fostering Civil Discourse Online: Linguistic Behavior in Comments of #MeToo Articles Across Political Perspectives**
Eugenia H. Rho, Gloria Mark, and Melissa Mazmanian.
ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW), 2018
- [P2] **Differences in Online Privacy & Security Attitudes Based on Economic Living Standards: A Global Study of 24 Countries**
Eugenia H. Rho, Alfred Kobsa, Carolyn Nguyen.
Proceedings of the European Conference on Information Systems (ECIS), 2018
- [P1] **Class Confessions: Restorative Properties in Online Experiences of Socioeconomic Stigma**
Eugenia H. Rho, Oliver L. Haimson, Nazanin Andalibi, Melissa Mazmanian, and Gillian R. Hayes.
ACM Conference on Human Factors in Computing Systems (CHI), 2017

Workshop Papers

- [W6] **ToxVis: Enabling Interpretability of Implicit vs. Explicit Toxicity Detection Models with Interactive Visualization**
Uma Gunturi, Xiaohan Ding, Eugenia H. Rho. *ACM Conference on Human Factors in Computing Systems (CHI)*, 2023
- [W5] **Real Memes In-The-Wild: Explainable Classification of Hateful vs. Non-Hateful Memes**
Rohan Leekha, Eugenia H. Rho. *ACM Conference on Human Factors in Computing Systems (CHI)*, 2023
- [W4] **Quality of Democratic Discourse in the Age of Political Hashtags and Social Media News Consumption**
Eugenia H. Rho. *ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW)*, 2020
- [W3] **Intelligent Agents in Everyday Settings: Leveraging a Multi-Methods Approach**
Krithika Jagannath, Eugenia H. Rho. *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018
- [W2] **Contextual Impact on SNS Users' Privacy Decisions: A Cross-Cultural Study**
Yao Li, Eugenia H. Rho. *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018
- [W1] **Privacy Norms in the Context of Connected & Self-Driving Cars**
Eugenia H. Rho. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2017

INVITED TALKS

- VTL x Speaker Series, Linguistics Seminar** 2024
Virginia Tech, February 2024
- AI-Driven Language Analysis: Predicting Real-World Outcomes in Public Health Trends and Law Enforcement Practices** 2023
Sanghani Center for Artificial Intelligence & Data Analytics, Virginia Tech, December, 2023
- EmotionAIze: Coping with Negative-Self Talk for Autistic Individuals Through Empathy-Driven LLM Interactions** 2023
Virginia Tech Center of Autism Research (VTCAR), November, 2023
- Words Matter: How Language Choices Predict Societal Trends and Outcomes in Media, Health and Policing** 2023
Johns Hopkins Center for Language and Speech Processing (CLSP) Seminar, Johns Hopkins CS NLP Group, Johns Hopkins Whiting School of Engineering, November 2023
- Supporting Mental Health in Neurodiverse Communities: Enhancing Large Language Model Accessibility through Multimodal Human-AI Interactions** 2023
Institute for Creativity, Arts, & Technology (ICAT) Playdate, Virginia Tech, October 2023
- Artificial Intelligence @Internet Archive: Research in the Age of Artificial Intelligence** 2023
Internet Archive, October 2023

Influence of Officer Speech in Traffic Stop Outcomes for Black Drivers Center for Human-Computer Interaction, Department of Computer Science, Virginia Tech), 2021	2021
Design of Online Environments and the Quality of Democratic Discourse At-Scale Department of Computer Science, Stanford University, Human-Computer Interaction Lecture: People, Computers & Design Seminar (Host: Michael Bernstein), 2021	2021
Department of Computer Science Virginia Tech, 2020	2020
Human Centered Design & Engineering University of Washington, 2020	2020
School of Information George Mason University, 2020	2020
Understanding Consequences of Brevity in Online Communication Through a Controlled Experiment with Social Media Users Invited guest lecture for Critical Writing on Information Technology (INF 131), Irvine, CA, 2019	2019
Usability of Interactive Systems Invited Guest lecture for Human Computer Interaction (INF 131), Irvine, CA, 2017	2017
Motivations and Barriers in Using Facebook Live Across Closed Mental Health Support Groups on Facebook Invited talk for KAIST Interaction (KIX) Lab, Korea Advanced Institute of Science and Technology, Daejeon, South Korea, 2017	2017

PRESS

AI Tool Predicts Whether Online Health Misinformation Will Cause Real-World Harm Scientific American, May 2024	2024
Study Traces an Infectious Language Epidemic Virginia Tech News, May 2024	2024
Be Careful What You Feed Your Head Forbes, February 2024	2024
AI—the Good, the Bad, and the Scary Virginia Tech Engineering News, November 2023	2023
Two Networks, Two Realities, One Big Problem Virginia Tech News, August 2023	2023
New Study: Officers' First Communication with Black Drivers Can Determine Traffic Stop Outcome NPR Atlanta, June 2023	2023

Interview with Eugenia Rho on Police Escalation CNN Tonight, CNN, June 2023	2023
A Study Found a Racial Bias During Police Traffic Stops and Police Orders KCBS Radio, June 2023	2023
Study: Officer's First 45 Words in Traffic Stop Could Predict Outcome Scripps News, June 2023	2023
For Black Drivers, a Police Officer's First 45 Words Are a Sign of What's to Come NPR Radio, May 2023	2023
Political Hashtags Make People Less Likely to Believe the News Radio New Zealand, December 2019	2019
Hashtag Fatigue: How #Metoo Turns People off From the News Newsweek Japan, December 2019	2019
How Political Hashtags Make Discussion More Partisan KCBS Radio, November 2019	2019
Hashtag Haven: Why People Distrust Social Media Clickbait Yahoo Finance, November 2019	2019
Political Hashtags Like #Metoo and #Blacklivesmatter Make People Less Likely to Believe the News The Conversation, November 2019	2019
Political Hashtags Like #Metoo and #Blacklivesmatter Make Some People Doubt the Stories They're Attached To Nieman Journalism Lab, Harvard University, November 2019	2019

TEACHING EXPERIENCE

Instructor, Virginia Tech, Department of Computer Science

CS 3724 Introduction to Human-Computer Interaction Spring 2024	2024
CS 5914 Human AI Interaction Powered by Large Language Models Fall 2023	2023
CS 6724 Human AI Interaction Spring 2023	2023
CS 5984 Computational Social Science Spring 2022	2022

Teaching Assistant, University of California, Irvine, Department of Informatics

INF 288 Master of Human-Computer Interaction & Design Capstone Project Summer 2020	2020
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INF 281 User Needs Analysis (38 students) Fall 2019	2019
ICS 139 Critical Writing on Information Technology (41 students) Summer 2019	2019
ICS 5 Global Disruption & Information Technology (249 students) Spring 2018	2018
ICS 166 Game Design (30 students) Spring 2017	2017
INF 131 Human Computer Interaction (197 students) Winter 2017 Led a 1-hour weekly discussion seminar with 80 students	2017
INF 131 Human Computer Interaction (119 students) Fall 2016 Led two 1-hour weekly discussion seminars with 60 students in each section	2016

SERVICE

Academic Service

<i>Search Committee</i> Virginia Tech Computer Science	2022– 2024
<i>Graduate Admissions Committee</i> Virginia Tech Computer Science	2021

Grant Review

National Science Foundation Panel	2022-2024
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Program Committee (Associate Chair)

ACM Conference on Human Factors in Computing Systems (CHI)	2024
ACM Conference on Computer Supported Cooperative Work (CSCW)	2022, 2024
Conference on Empirical Methods in Natural Language Processing (EMNLP)	2022
ACM Conference on Human Factors in Computing Systems (CHI) Late Breaking Work	2020

Paper Reviewer

ACM Conference on Computer Supported Cooperative Work (CSCW)	2016–2023
ACM Conference on Human Factors in Computing Systems (CHI)	2017–2023
AAAI Conference on Web and Social Media (ICWSM)	2021
Proceedings of the European Conference on Information Systems (ECIS)	2021
ACM Designing Interactive Systems Conference (DIS)	2018

Student Volunteer

ACM Conference on Human Factors in Computing Systems (CHI)	2018
ACM Conference on Computer Supported Cooperative Work (CSCW)	2017

Member

ACM Special Interest Group on Computer-Human Interaction	2015 – Present
Association for Computational Linguistics	2020 – Present

ADVISING AND MENTORSHIP

Faculty Panelist for ACM Computer-Human Interaction Mentoring (CHIME) Symposium Workshop	2021
Faculty Research Talk, Graduate Student Orientation, Virginia Tech	2021
Women in Information & Computer Sciences (WICS) at UC Irvine	2016 – Present
“Explore ICS Program” – a 5-month mentorship program for introducing female undergraduate/undeclared students to Information & Computer Science (ICS) majors	2016 – 2017
Panelist, Internship Experience with Tech Industries, UCI Informatics	2017
Graduate Student Panelist, Orientation for Incoming PhD Students at UCI Informatics	2017
Treasurer, Informatics Graduate Student Association (IGSA)	2016

Student Advising

Graduate Advisees at Virginia Tech (2021 – Present)

Xiaohan Ding (Ph.D., Computer Science)
 Kaike Ping (Ph.D., Computer Science)
 Buse Carik (Ph.D., Computer Science)
 Lance Wilhelm (Ph.D., Computer Science)
 Taufiq Daryanto (Ph.D., Computer Science)
 Sophia Stil (M.S., Computer Science)
 Anisha Kumar (M.S., Computer Science)
 Uma Gunturi (M.S., Computer Science)
Torgersen Research Excellence Award Finalist, currently at IBM Research
 Rohan Leekha (M.S., Computer Science)
currently at MIT Lincoln Laboratory

Undergraduate Advisees at Virginia Tech (2021 – Present)

Samridhi Roshan (B.S., Computer Science)
 Eunice Hong (B.S., Computer Science)

Thesis Committee

Swanand Vaishampayan (Ph.D., Computer Science)
 Sukrit Venkatagiri (Ph.D., Computer Science)
 Bill Ingram (Ph.D., Computer Science)
 Aman Ahuja (Ph.D., Computer Science)

Satvik Chekuri (Ph.D., Computer Science)
Anirban Mukhopadhyay (Ph.D., Computer Science)
Marx Wang (M.S., Computer Science)
Muskan Gupta (M.S., Computer Science)
Lucas Franke (M.S., Computer Science)
Hulya Dogan (M.S., Computer Science)