

Buse Çarık

Ph.D. Candidate, Department of Computer Science
Virginia Tech

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Education

2023–2027 (<i>expected</i>)	Ph.D., Computer Science, Virginia Tech Advisor: Dr. Eugenia H. Rho
2020–2022	M.Sc., Computer Science, Sabancı University Advisor: Dr. Reyhan Yeniterzi
2015–2020	B.Sc., Computer Science, Sabancı University Minor in Psychology

Selected Publications

- [2026] “Are We Writing an Advice Column for Spock Here?” Understanding Stereotypes in AI Advice for Autistic Users.
Caleb Wohn, **Buse Çarık**, Xiaohan Ding, Sang Won Lee, Young-Ho Kim, Eugenia H. Rho.
In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '26)*
- [2025a] Reimagining Support: Exploring Autistic Individuals’ Visions for AI in Coping with Negative Self-Talk.
Buse Çarık, Victoria Izaac, Xiaohan Ding, Angela Scarpa, Eugenia Rho.
In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '25)*
- [2025b] Exploring Large Language Models Through a Neurodivergent Lens: Use, Challenges, Community-Driven Workarounds, and Concerns.
Buse Çarık, Kaike Ping, Xiaohan Ding, Eugenia H. Rho.
In *Proceedings of the ACM International Conference on Supporting Group Work (GROUP '25)*
- [2025c] A Multi-Level Benchmark for Causal Language Understanding in Social Media Discourse.
Xiaohan Ding, Kaike Ping, **Buse Çarık**, Eugenia H. Rho.
In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP '25)*
- [2025d] Designing Human–AI Collaboration to Support Learning in Counterspeech Writing.
Xiaohan Ding, Kaike Ping, Uma Sushmitha Gunturi, **Buse Çarık**, Lance T. Wilhelm, Taufiq Daryanto, Sophia Stil, James Hawdon, Sang Won Lee, Eugenia H. Rho.
In *Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '25)*
- [2024] Leveraging Prompt-Based Large Language Models: Predicting Pandemic Health Decisions and Outcomes Through Social Media Language.
Xiaohan Ding, **Buse Çarık**, Uma Sushmitha Gunturi, Valerie Reyna, Eugenia H. Rho.
In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24)*
- [2022a] A Twitter Corpus for Named Entity Recognition in Turkish.
Buse Çarık, Reyhan Yeniterzi.
In *Proceedings of the Language Resources and Evaluation Conference (LREC '22)*
- [2022b] A Turkish Hate Speech Dataset and Detection System.
Fatih Beyhan, **Buse Çarık**, İnanç Arın, Ayşecan Terzioğlu, Berrin Yanıkoğlu, Reyhan Yeniterzi.
In *Proceedings of the Language Resources and Evaluation Conference (LREC '22)*

Honors and Awards

Pratt Fellowship Award, Department of Computer Science, Virginia Tech	2026–2027
VT Autism Clinic & Center for Autism Research Student Fellowship	2024
TÜBİTAK Graduate Fellowship	2021–2022
Sabancı University Tuition Scholarship	2015–2022
Dean’s List, Sabancı University	2015–2020

Invited Talks

Designing Neuro-Affirming Human–AI Interactions for Coping with NST in Autistic Adults <i>Virginia Tech Center for Autism Research, Biennial Spring Autism Conference</i>	Mar 2025
Designing Multimodal AI Tools to Support Autistic Adults with Negative Self-Talk <i>Virginia Tech Center for Human-Computer Interaction (CHCI) Seminar</i>	Feb 2025
Supporting Mental Health in Neurodiverse Communities: Multimodal Human–AI Interaction <i>Symposium on the Human-Centered Future of Work, Virginia Tech</i>	Nov 2023

Research Positions

SAIL Lab, Graduate Research Assistant Jan 2023 – Present
Advised by Dr. Eugenia H. Rho

- Conducting participatory design research with autistic adults to inform the design of multimodal AI tools for mental health support (**CHI 2025**).
- Constructing a dyadic corpus to computationally model human miscommunication and benchmark LLM biases against non-normative communication styles.

SUNLP, Graduate Research Assistant Nov 2021 – Nov 2022
Advised by Dr. Reyyan Yeniterzi

- Developed an end-to-end entity linking system for noisy social media text using transformer-based NER, contributing to a system paper at **SemEval 2022**.
- Created and released Turkish Twitter NER corpus and training scripts, establishing a new baseline for the task (**LREC 2022**).

TÜBİTAK, Research Assistant Mar 2020 – Mar 2021

- Led the creation of a multilingual hate-speech dataset, including annotation QA, and implemented BERT, CNN, and BiLSTM classifiers to establish reproducible benchmarks (**LREC 2022**).

Teaching Experience

Introduction to AI Advanced Machine Learning Introduction to Software Design <i>Virginia Tech</i>	2023–2025
Machine Learning Natural Language Processing Computational Problem Solving <i>Sabancı University</i>	2020–2022

Service

Reviewer: DIS 2026 | CHI 2024/26 | CSCW 2024/25 | GROUP 2025 | Computers in Human Behavior Reports
Event Coordinator, Center for Human–Computer Interaction (CHCI) Council, Virginia Tech, 2026/27
Organizing Committee, Women in Data Science (WiDS) Istanbul, 2021
American Psychological Association (APA) Ethical Emotionally Intelligent AI Pilot Training

Skills

Research Responsible AI, Accessibility, Natural Language Processing, Participatory Design, Mixed-methods Studies, Qualitative Analysis, Survey, Interview, IRB/ethics, Evaluation Design, Ablations

Technical Python, C++, R, Bash; PyTorch, Hugging Face, LangChain/RAG, Git, Linux, Docker, Tensorflow