

Mohammad "Matt" Namvarpour

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Current position

PhD Candidate, Drexel University College of Computing & Informatics

Research Interests

Conversational User Interface (CUI) Design; Human-AI Interaction; Machine Learning; Natural Language Processing

Teaching Experience

INSTRUCTOR OF RECORD

2026 (Summer) INFO 310 Human-Centered Design Process and Methods (Online) — Drexel University

2026 (Spring) INFO 150 Ubiquitous Computing — Drexel University

2026 (Winter) INFO 310 Human-Centered Design Process and Methods — Drexel University

Students apply concepts through in-class problem solving and design tasks.

SELECTED TEACHING EVALUATIONS:

- INFO 310 Human-Centered Design Process and Methods (Fall 2025): Overall course rating 4.83/5; instructor rating 4.67/5.
- INFO 150 Ubiquitous Computing (Spring 2026): Overall course rating 4.58/5; instructor rating 4.58/5; course requirements clarity 4.92/5; feedback quality 4.83/5.

TEACHING APPROACH

Activity-based instruction grounded in real-world scenarios. Worksheet-driven learning supports immediate application of concepts. Clear structure and expectations. Emphasis on participation and steady progress. Low-anxiety grading design.

TEACHING ASSISTANT

- Sep–Dec 2025 Introduction to Computing and Security Technology — Drexel University
Feb–Jul 2022 Speech and Natural Language Processing — Khajeh Nasir Toosi University of Technology
Oct–Dec 2021 Machine Learning — Khajeh Nasir Toosi University of Technology

Education

- 2023–Present PhD in Information Science, Drexel University
2020–2023 MSc in Computer Engineering - Artificial Intelligence and Robotics, Khajeh Nasir Toosi University of Technology
2016–2020 BSc in Mechanical Engineering, Iran University of Science and Technology

Thesis and Selected Academic Work

- 2020–2023 **Master’s Thesis:** “*Speech Emotion Recognition Using Neural Attention-Based Architectures*”
Developed and evaluated four deep learning architectures, including CNNs and transformer-based models (Wav2vec2.o), for automatic emotion recognition in speech. Used PyTorch and Scikit-learn for model implementation and evaluation. Achieved 94.8% accuracy on EMODB and strong performance on IEMOCAP and ShEMO datasets. This work provided foundational technical experience in AI and deep learning, supporting later research in Human-AI interaction and safe, user-centered AI systems.

Publications & Talks

CONFERENCE PROCEEDINGS

- 2026 Namvarpour, M., Brofsky, B., Medina, J., Akter, M., and Razi, A. 2026. “Understanding Teen Overreliance on AI Companion Chatbots Through Self-Reported Reddit Narratives.” *In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI ’26)*. Association for Computing Machinery, New York, NY, USA, Article 1646, 1–19. <https://doi.org/10.1145/3772318.3790597>
- 2025 Namvarpour, M., Pauwels, H., and Razi, A. 2025. “AI-induced Sexual Harassment: Investigating Contextual Characteristics and User Reactions of Sexual Harassment by a Companion Chatbot.” *In Proceedings of the 28th ACM SIGCHI Conference on Computer-Supported Cooperative Work and Social Computing (CSCW ’25)*. Association for Computing Machinery, New York, NY, USA. <https://doi.org/10.1145/3757548> (**Honorable Mention Award**)
- 2025 Namvarpour, M., and Razi, A. 2025. “The Art of Talking Machines: A Comprehensive Literature Review of Conversational User Interfaces.” *In Proceedings of the 7th ACM Conference on Conversational User Interfaces (CUI ’25)*. Association for Computing Machinery, New York, NY, USA, Article 45, 1–18. <https://doi.org/10.1145/3719160.3736621>
- 2025 Namvarpour, M., Aghakhani, E., Ekstrand, M.D., Rezapour, R., and Razi, A. 2025. “The Evolving Landscape of Youth Online Safety: Insights from News Media Analysis”, *In Proceedings of the 17th ACM Web Science Conference 2025*, 261–271. <https://doi.org/10.1145/3717867.3717874>
- 2024

- Namvarpour, M., Razi, A. “Uncovering Contradictions in Human-AI Interactions”, *27th ACM SIGCHI Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. DOI: 10.1145/3678884.3681909
- 2024 Namvarpour, M., Razi, A. “Apprentices to Research Assistants: Advancing Research with Large Language Models”, *CHI 2024 Workshop: LLMs as Research Tools in HCI Data Work*. arXiv:2404.06404

JOURNAL ARTICLES

- 2024 Nasersharif, B., Namvarpour, M. “Exploring the Potential of Wav2vec 2.0 for Speech Emotion Recognition”, *The Journal of Supercomputing*, Volume 80, Issue 16. DOI: 10.1007/s11227-024-06158-x
- 2022 Rezaee, M., Yeganegi, A., Namvarpour, M., Ghassemi, H. “Fluid Flow Dynamics in Deformed Carbon Nanotubes with Unaffected Cross Section”, *Advances in Nano Research*, Volume 12, Issue 3, pp. 253–261 (Techno-Press)
- 2020 Rezaee, M., Namvarpour, M., Yeganegi, A., Ghassemi, H. “Comprehensive Study of Monatomic Fluid Flow through Elliptical Carbon Nanotubes”, *Physics of Fluids*, Volume 32, Issue 9 (AIP Publishing)

Grants, Honours & Awards

- 2025 Honorable Mention Award — ACM SIGCHI Conference on Computer-Supported Cooperative Work and Social Computing (CSCW ’25) for paper “AI-induced Sexual Harassment: Investigating Contextual Characteristics and User Reactions of Sexual Harassment by a Companion Chatbot”
- 2018 Finalist, LG Global Challenger Competition — Research expedition to China funded by LG Electronics DFZE, Tehran Liaison Office

Licenses & Certifications

- 2021–2023 IELTS Academic Training — Overall Band Score: 8.0 (L: 8.5, R: 9.0, W: 7.5, S: 7.0). Credential ID: 21IR010182NAMM120A. Issued by IELTS Official
- Mar 2021 Deep Learning: Applications & Tools — Workshop held by IEEE Iran Section at the 26th Computer Society International Conference. Topics included deep learning applications in vision, NLP, audio, GANs, and reinforcement learning. Credential ID: 147489
- Sep 2020 Deep Learning Specialization — Coursera (Credential ID: 89JQ3X8BNLWQ). Included 5 courses: Neural Networks, Optimization, Structuring Projects, CNNs, and Sequence Models
- May 2020 Visual Elements of User Interface Design — Coursera (Credential ID: WWH99Z7GZHBD). Covered interface design with focus on color, typography, and imagery. Part of the UI/UX Design Specialization