Mohammad "Matt" Namvarpour

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Born: October 11, 1997—Karaj, Iran
Nationality: Iranian

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

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	BASc 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 (Wav2vec2.0), 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

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

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)**

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)

Teaching

Sep 2025-Present   Teaching Assistant, Introduction to Computing and Security Technology — Drexel University, Philadelphia, U.S.

Feb–Jul 2022   Teacher Assistant, Speech and Natural Language Processing — Khajeh Nasir Toosi University of Technology, Tehran, Iran

Oct–Dec 2021   Teacher Assistant, Machine Learning — Khajeh Nasir Toosi University of Technology, Tehran, Iran

Service to the Profession

2024   Paper Reviewer — CSCW 2024 (January round), reviewed 2 submissions

Media Coverage

2025   CSCW'25 research on AI-induced sexual harassment by companion chatbots received international media attention:

- "'It missed me after 6 messages:' when AI companions cross the line" — *CTV News*, May 19, 2025. Link

- "What Happens When a Companion Chatbot Crosses the Line?" — *Drexel University News*, May 5, 2025. Link

- "It's pretty easy to get DeepSeek to talk dirty" — *MIT Technology Review*, June 19, 2025. Link

- "What Does It Mean To Have A Chatbot Companion?" — *Science Friday*, June 6, 2025. Link

- "Cashing Feelings – KI-Chatbots und das Geschäft mit Gefühlen" — *Business Insider Germany*, June 24, 2025. Podcast interview featuring myself and my advisor discussing design implications of AI companions. Link

- "Drexel University Study Finds AI Companion Chatbots Harassing, Manipulating Consumers" — *AI News*, July 5, 2025. In-depth article citing our CSCW'25 paper and featuring quotes from myself and Dr. Razi. Link

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