

# Amirehsan Davoodi

[amirehsan.davoodi@gmail.com](mailto:amirehsan.davoodi@gmail.com)

LinkedIn: [linkedin.com/in/amirehsan-davoodi](https://www.linkedin.com/in/amirehsan-davoodi)

Tehran, Iran  
(+98) 915 612 6388

September 13, 2025

**To:** Dr. Ali Diba (Scientist, QCRI)  
[adiba@hbku.edu.qa](mailto:adiba@hbku.edu.qa)

Dear Dr. Diba,

I am writing to express my interest in the remote research/internship opportunities at QCRI focused on multi-modal foundation models for crisis and disaster management. I am a PhD candidate in AI at Amirkabir University of Technology (AGML Center) with an MSc in AI from USI (Lugano). My research bridges agentic AI systems with knowledge graph construction, and I have hands-on experience in ML/DL engineering (PyTorch), backend services (FastAPI), and deployment (Docker).

My current line of work investigates agentic AI for Knowledge Graph Construction (KGC) using dual-learning validation loops (graph-to-text/text-to-graph) to reduce hallucinations. I also study time-series and imaging data via graph learning; our ASD-GraphNet paper demonstrates fMRI-based autism diagnosis (Computers in Biology and Medicine, 2025; [doi:10.1016/j.compbimed.2025.110723](https://doi.org/10.1016/j.compbimed.2025.110723)). Building on this, I'm particularly excited about combining VLMs/VLAs with structured knowledge (GraphRAG-style retrieval over crisis knowledge graphs) to deliver trustworthy situational awareness, attribution, and audit trails for humanitarian response.

I would be glad to contribute to QCRI projects at the intersection of VLMs/VLAs, social media streams, satellite/aerial imagery, and structured knowledge integration. I bring both research depth (designing agents, KG validation, XAI/uncertainty) and engineering pragmatism (data pipelines, APIs, evaluation). I would welcome the opportunity to discuss fit and potential directions (e.g., KG-enhanced VLM grounding, temporal event graphs for crises, explainable triage and prioritization).

Thank you for your time and consideration. I have attached my CV and a brief research interest note. I would be delighted to collaborate as a remote intern or research collaborator.

Sincerely,

**Amirehsan Davoodi**