

# Abdollah Zakeri, Ph.D.

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**Summary** — Ph.D. in Computer Science with expertise in computer vision, deep learning, and robotics, backed by strong research, publications, and industry experience.

## Selected Skills

<b>Languages</b> Python, C++ , Shell, MATLAB	<b>Multimodal</b> Vision-Language Models, Prompt Engineering
<b>Deep Learning</b> PyTorch, TensorFlow, Lightning	<b>Deployment</b> Docker, Conda, TensorRT, CUDA, Slurm, Git
<b>Computer Vision</b> OpenCV, YOLO, TorchVision, Detectron2	<b>Data Science</b> Pandas, Numpy, SQL, Matplotlib,
<b>LLMs / GenAI</b> Transformers, Tokenizers, LangChain, OpenAI	Scikit-KLearn, XGBoost, LightGBM

## Experience

- C3.ai - Data Science Intern** Redwood City, CA - May 2024 – Aug 2024
- Developed and deployed multi-modal vision network for C3.ai property appraisal R&D
  - Developed and deployed a complete ML solution for C3.ai property appraisal product
- University of Houston - Graduate Research Assistant, Robotics & AI** Houston, TX - Aug 2022 – August 2025
- Led AI and vision system development for autonomous mushroom harvesting robot.
  - Learning Disability (LD) risk assessment based on handwriting using multi-modal classification
  - COVID severity detection for pediatric patients using CXR images and vision transformer
- Founder and CEO at Pencode Software** Iran - Jul 2016 – Aug 2022
- Delivered ML solutions for quality assessment (e.g., X-ray tire inspection using CNNs).
  - Supervised multiple student teams; organized ACM ICPC training and contests at university level.
- Co-Founder and board member in Nimrou startup** Iran - August 2017 – Aug 2022
- Developed frontend and backend of the website + RESTful API for android and IOS applications
  - Currently active having 10k+ monthly clients

## Education

- Ph.D. in Computer Science - GPA: 3.91** University of Houston - Aug 2022 – Present
- Research focus: computer vision, robotics, multimodal deep learning.
- M.S. in AI & Robotics Engineering - GPA: 3.91** Shahrood Univ. of Technology - Sep 2020 – Aug 2022
- Research focus: Deep learning, Computer Vision, Biometrics
- B.S. in Software Engineering - GPA: 3.67** University of Birjand - Sep 2015 – Mar 2020

## Honors and Awards

- 2nd place in Coogs-for-energy hackathon - University of Houston
- 2nd place in C3.AI company-wide generative AI hackathon
- 1st place in 6th Birjand University Annual ACM/ICPC

## Certifications

- TensorFlow Developer – DeepLearning.AI
- Generative Adversarial Networks Specialization – DeepLearning.AI
- Deep Learning Specialization – DeepLearning.AI

## Selected Publications

- Zakeri, A.**, et al. “Fill The Void: Context-Aware Depth Inpainting for Reliable 3-D Perception in Mushroom Harvesting” *COMPAG*, 2025.
- Zakeri, A.**, et al. “Species-Aware Growth and Yield Forecasting for Commercial Mushroom Farms” *COMPAG*, 2025.
- Zakeri, A.**, et al. “SMS3D: 3D Synthetic Mushroom Scenes for Detection and Pose Estimation.” *Computers*, 2025.
- Zakeri, A.**, Hassanpour, H. “WhisperNet: Deep Siamese Network for Lip-Based Biometrics.” *ICSPIS*, IEEE, 2021.
- Nguyen, V.D., **Zakeri, A.**, et al. “Tackling Domain Shifts in Person Re-Identification.” *CVPR*, 2024.

## References

- Dr. Fatima Merchant - fmerchant@uh.edu
- Dr. Driss Benhaddou - dbenhaddou@uh.edu
- Dr. Shishir Shah - sshah@uh.edu