

Nima Kondori

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The University of British Columbia, Vancouver, BC Canada V6T 1Z4

EDUCATION

University of British Columbia (UBC)

Master of Applied Science in Electrical and Computer Engineering, GPA: 93.1/A+.

Supervisors: [Dr. Renjie Liao](#) and [Dr. Purang Abolmaesumi](#)

Sep. 2022 - Dec. 2024

Vancouver, Canada

University of British Columbia (UBC)

Bachelor of Applied Science in Electrical and Computer Engineering, GPA: 88/A.

Sep. 2017 – May 2020

Vancouver, Canada

SKILLS

Machine Learning

- Generative AI, Diffusion Models, Vision Transformers, Vision-Language Models, LLMs, NLP, PyTorch, TensorFlow, Pandas, NumPy, Data Science, Deep Learning.

Software

- Python, Java, C++, PostgreSQL, Elasticsearch, Docker, Cloud Computing, Kubernetes, Helm, AWS, EKS, Rest API, Object-Oriented Programming, Remote Development.

EXPERIENCES

Scenebox (Applied Intuition)

Machine Learning Engineer

Nov. 2020 - Aug. 2022

Vancouver, Canada

- Developed a similarity search service capable of producing a list of 100 similar images in 30 milliseconds.
- Scaled up the similarity search service by a factor of 10 allowing queries for up to 100,000 similar images.
- Transitioned a large-scale Elasticsearch service to PostgreSQL, 5x increase in query size and a 25% boost in processing speed.
- Transitioned self-managed services to AWS-managed services yielding a 30% decrease in cloud costs.

RESEARCH EXPERIENCES

University of British Columbia (UBC)

Research Assistant, Advisors: [Dr. Renjie Liao](#) and [Dr. Purang Abolmaesumi](#)

Sep. 2022 - Dec. 2024

Vancouver, Canada

- Built a novel large video diffusion model inspired by ControlNet to generate synthetic ultrasound videos of the heart conditioned on the patient's other acquired views.
- Utilized the generated data to curate an augmented dataset and train a supervised ejection fraction estimation model achieving state-of-the-art performance.

Undergraduate Research Assistant

Applied Undergraduate Researcher, Mentor: [Dr. Purang Abolmaesumi](#)

Sep. 2019 - Aug. 2019

Vancouver, Canada

- Launched an Android mobile application for real-time heart ultrasound image analysis, achieving a 30% increase in processing speed and user experience.
- Integrated the application with third-party tools, enhancing data visualization and patient engagement.

PUBLICATIONS & SUBMISSIONS

N. Kondori, H. Liang, H. Vaseli, B. Xie, C. Luong, P. Abolmaesumi, T. Tsang, and, R. Liao, "ControlEchoSynth: Boosting Ejection Fraction Estimation Models via Controlled Video Diffusion", Data Curation and Augmentation in Enhancing Medical Imaging Applications Workshop at **CVPR 2024**.

H. Vaseli, A. Gu, N. Ahmadi, M. Tsang, A. Fung, **N. Kondori**, A. Saadat, P. Abolmaesumi, and T. Tsang "ProtoASNet: Dynamic Prototypes for Inherently Interpretable and Uncertainty-Aware Aortic Stenosis Classification in Echocardiography," In Medical Image Computing and Computer Assisted Intervention – **MICCAI 2023**. [[arXiv](#)]