Curriculum Vitae - Anh Tien Nguyen

Contact Information

Homepage: anhtienng.github.io
Email: ngtienanh@korea.ac.kr

Research Interests

medical image analysis, computational pathology, computer vision, and deep learning

Education

Korea University, South Korea 03/2023 - present

M.Sc., Computer Engineering

- GPA: 4.38/4.5
- Supervised by Prof. Jin Tae Kwak
- Research area: computational pathology

Vietnam National University - Ho Chi Minh City University of Technology, Vietnam 08/2017 - 08/2021

B.E., Computer Engineering

- GPA: 9.26/10 - Rank 2
- Graduation classification: Excellent

Publications

- 2DMamba: Efficient State Space Model for Image Representation with Applications on Giga-Pixel Whole Slide Image Classification
  Jingwei Zhang*, **Anh Tien Nguyen***, Xi Han*, Vincent Quoc-Huy Trinh, Hong Qin, Dimitris Samaras, Mahdi S. Hosseini
  Under review - CVPR 2025
- Towards a text-based quantitative and explainable histopathology image analysis
  Anh Tien Nguyen, Trinh Thi Le Vuong, Jin Tae Kwak
  In *Medical Image Computing and Computer-Assisted Intervention* (MICCAI), 2024
  Early accept, top 11%
- CAMP: Continuous and Adaptive Learning Model in Pathology
  Anh Tien Nguyen, Keunho Byeon, Kyungeun Kim, Boram Song, Seoung Wan Chae, Jin Tae Kwak
  Under review - journal, 2024
- GPC: Generative and General Pathology Image Classifier
  Anh Tien Nguyen, Jin Tae Kwak
  In *Medical Image Computing and Computer-Assisted Intervention* (MICCAI) Workshop, 2023
  Best Paper Honorable Mention Award

Research experiences

Korea University, South Korea 03/2023 - present

Research assistant

- Main research topics: computational pathology
- Projects:
  - An unified framework for pathology image classification
  - Text-based embeddings for pathology images

Concordia University, Canada - Stony Brook University, USA 04/2024 - present

Research intern *(remote)*

- Research topics: computational pathology
- Supervisor: Prof. Mahdi S. Hosseini and Prof. Dimitris Samaras
- Project: efficient 2D-scanning method for histology whole slide images

Teaching experience

Korea University, Korea 09/2024 - 12/2024

Teaching assistant - C programming language

Industry experiences

Cloud Ace, Vietnam 10/2021 - 02/2023

Machine learning engineer

- Designed and deployed machine learning solutions on Google Cloud Platform.
- Taught machine learning courses on Google Cloud Platform.

Skills

Programming: Python, PyTorch, OpenSlide

Tool: QuPath

English: IELTS 7.5

Awards

KU Foreign Global Leader Scholarship 08/2024
Achieved a for excellent GPA, research projects, and publications.

BK21 Scholarship 03/2024
Achieved a scholarship for excellent research projects and publications.

KU Natural Science and Engineering scholarship 03/2023 - 06/2024
Achieved a scholarship for excellent research projects and publications.

Honda Award 03/2021
Achieved top 100 nationwide scholarship for Science and Technology students based on merit and research.

HCMC University of Technology scholarship 08/2017 - 08/2021
Achieved scholarships for outstanding students who ranked 5% in a class.

FPT Digital Race 10/2020
Ranked 3^{rd} by designing and deploying an autonomous vehicle control system.

References

- Jin Tae Kwak
  Associate Professor, School of Electrical Engineering, Korea University
  Email: jkwak@korea.ac.kr
- Dimitris Samaras
  SUNY Empire Innovation Professor, Department of Computer Science, Stony Brook University
  Email: samaras@cs.stonybrook.edu
- Mahdi S. Hosseini
  Assistance Professor, Department of Computer Science and Software Engineering, Concordia University
  Email: mahdi.hosseini@concordia.ca
- Raviv Raich
  Associate Professor, Department of Computer Science, Oregon State University
  Email: raich@eecs.oregonstate.edu