Curriculum Vitae - Anh Tien Nguyen

CONTACT INFORMATION	Homepage: anhtienng.github.io Email: anh.nguyen.3@stonybrook.edu - tienanhnguyen9991@gmail.com

RESEARCH INTERESTS: medical image analysis, computational pathology, computer vision, and deep learning

EDUCATION

Stony Brook University, USA   08/2025 - Present

Ph.D, Computer Science
- Supervised by Prof. Dimitris Samaras

Korea University, South Korea   03/2023 - 02/2025

M.Sc., Computer Engineering
- GPA: 4.0/4.0
- Supervised by Prof. Jin Tae Kwak

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

B.E., Computer Engineering
- GPA: 3.9/4.0 - Rank 2
- Graduation classification: Excellent

PUBLICATIONS

- Normal and Abnormal Pathology Knowledge-Augmented Vision-Language Model for Anomaly Detection in Pathology Images
  Jinsol Song, Jiamu Wang, **Anh Tien Nguyen**, Keunho Byeon, Sangjeong Ahn, Sung Hak Lee, Jin Tae Kwak
  ICCV 2025

- Pathology-Informed Latent Diffusion Model for Anomaly Detection in Lymph Node Metastasis
  Jiamu Wang, Keunho Byeon, Jinsol Song, **Anh Tien Nguyen**, Sangjeong Ahn, Sung Hak Lee, Jin Tae Kwak
  MICCAI 2025

- VLEER: Vision and Language Embeddings for Explainable Whole Slide Image Representation
  Anh Tien Nguyen, Keunho Byeon, Kyungeun Kim, Jin Tae Kwak
  Under review

- 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
  CVPR 2025

- Towards a text-based quantitative and explainable histopathology image analysis
  Anh Tien Nguyen, Trinh Thi Le Vuong, Jin Tae Kwak
  MICCAI 2024 - Early acceptance, 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

- GPC: Generative and General Pathology Image Classifier
  Anh Tien Nguyen, Jin Tae Kwak
  MICCAI Workshop 2023 - Best Paper Honorable Mention Award

RESEARCH
EXPERIENCES

Korea University, South Korea   03/2023 - 02/2025

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

PROFESSIONAL
SERVICE

Reviewer

IEEE Transactions on Medical Imaging

INDUSTRY
EXPERIENCE

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.

AWARDS

MICCAI 2024 - LEOPARD Challenge   10/2024
Ranked 6th in the challenge of predicting biochemical recurrence of prostate cancer.

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

Brain Korea 21 Scholarship   03/2024
Achieved a scholarship for excellent research projects and publications.

MICCAI 2023 - MedAGI Workshop   10/2023
Achieved *Best Paper Honorable Mention* Award.

SKILLS

Programming: Python, PyTorch, OpenSlide

Tool: QuPath

English: IELTS 7.5

REFERENCES

- 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

- Jin Tae Kwak
  Associate Professor, School of Electrical Engineering, Korea University
  Email: jkwak@korea.ac.kr