Giang Nguyen

Computer Science ◇ Auburn University, AL, USA
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EDUCATION

Auburn University, AL — Aug 2021 - present
Ph.D. in Computer Science — Advisors: Anh Nguyen
Doing research on *Explainable AI & Computer Vision*

KAIST - Korea Advanced Institute of Science and Technology, South Korea — 2018 - 2020
M.Sc. in Computer Science — Advisor: Daeyoung Kim
Thesis: *Overcoming Catastrophic Forgetting by Deep Visualization*

Hanoi University of Science and Technology, Vietnam — 2011 - 2016
B.Eng. in Electronics and Telecommunications

WORK EXPERIENCES

Auburn University — Aug 2021 - present
Research Assistant — *Auburn, AL*

Data Engineering & Analytics Laboratory, KAIST — Sept 2020 - Feb 2021
Graduate AI Researcher — *South Korea*

· Conducting research to evaluate machine explanations on humans.

Data Engineering & Analytics Laboratory, KAIST — Aug 2018 - Aug 2020
Research Assistant — *South Korea*

· One of 20 finalists at Qualcomm-KAIST Innovation Awards 2019.
· Conducting computer vision research and publishing at top-1 AI conferences (e.g. NeurIPS2021).

G-Innovations — Feb 2018 - Jul 2018
Application Software Engineer — *Hanoi*

· Optimizing minutiae detection algorithm running time by 80% and memory usage by 95% on AVR32.
· Building a commercial chatbot using AIML and Java to interact with customers for loan applications.

DASAN Zhone Solutions Vietnam - DZS Vietnam — Jul 2016 - Jan 2018
Linux Embedded Software Engineer — *Hanoi*

· One of 3 best interns (among 12) in Fall 2016 of DZS.
· Implementing network protocols on embedded network devices.

PUBLICATIONS

https://scholar.google.com/citations?user=l_kfXecAAAAJ

Peer-reviewed Papers and Preprints

· *Nguyen, G., *Taesiri, M., Nguyen, A., 2022. Visual correspondence-based explanations improve human-AI team accuracy. (CVPR2022-XAI4CV, NeurIPS2022). [poster] [pdf]
* denotes equal contributions.
· Nguyen, G., Kim, D. and Nguyen, A., 2021. The effectiveness of feature attribution methods and its correlation with automatic evaluation scores. (NeurIPS2021-WHMD, NeurIPS2021). [pdf]
· Nguyen G., Chen S., Jun T.J., Kim D. (2021) Explaining How Deep Neural Networks Forget by Deep Visualization. (ICPR2020-EDLAI). [pdf]

- Nguyen, G., Jun, T. J., Tran, T., Yalew, T., & Kim, D. (2019). ContCap: A scalable framework for continual image captioning. arXiv preprint. [pdf]
- Tran, T.Q., Nguyen, G.V. and Kim, D., 2021, January. Simple Multi-Resolution Representation Learning for Human Pose Estimation. (ICPR2020). [pdf]
- Kim, H., Jun, T.J., Nguyen, G. and Kim, D., 2019, December. Bidirectional LSTM with MFCC Feature Extraction for Sleep Arousal Detection in Multi-channel Signal Data. (ICONIP2019). [pdf]
- Nguyen G (2020). Overcoming Catastrophic Forgetting by Deep Visualization. Master thesis at KAIST, South Korea. [pdf]

Book translations

- 2020: Translation of *Interpretable Machine Learning: A Guide for Making Black Box Models Explainable* by Christoph Molnar to Vietnamese. Both pdf and tex version can be found here.

AWARDS AND ACTIVITIES

- 2014 & 2015: University scholarship for excellent students of HUST: $200
- 2015: 1^{st} Class award of Texas Instruments Innovation Challenge Vietnam – North Region: $800
- 2016: DASAN Zhone Solutions scholarship for HUST excellent students: $2500
- 2018: Korea Advanced Institute of Science and Technology (KAIST), MS scholarship: $20.000/year
- 2021: Presidential Graduate Research Fellowship at Auburn University, US: $30.000/year
- 2021: I serve as a PC (reviewer) at NeurIPS 2021 workshop.
- 2022: Registration award at CVPR 2022, New Orleans, LA, US: $550.
- 2022: I serve as a PC (reviewer) at AAAI 2023 main conference.