

Giang Nguyen

Computer Science ♦ Auburn University, AL, USA

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EDUCATION

Auburn University, USA Ph.D. in Computer Science <i>I am conducting research on computer vision and human-AI collaboration via machine explanations.</i>	08/2021 → now Advisors: Anh Nguyen
Korea Advanced Institute of Science and Technology, South Korea M.Sc. in Computer Science Thesis: <i>Overcoming Catastrophic Forgetting by Deep Visualization</i>	08/2018 → 08/2020 Advisor: Daeyoung Kim
Hanoi University of Science and Technology, Vietnam B.Eng. in Electronics and Telecommunications	09/2011 → 06/2016 Advisor: Minh Nguyen

WORK EXPERIENCES

Anh Nguyen Laboratory, Auburn University, USA <i>Research Assistant</i>	08/2021 → now
Data Engineering & Analytics Laboratory, KAIST, South Korea <i>Graduate AI Researcher</i>	09/2020 → 02/2021
Data Engineering & Analytics Laboratory, KAIST, South Korea <i>Research Assistant</i>	08/2018 → 08/2020
G-Innovations, Hanoi <i>Application Software Engineer</i>	02/2018 → 07/2018
DASAN Zhong Solutions Vietnam, Hanoi <i>Linux Embedded Software Engineer</i>	07/2016 → 01/2018

AWARDS AND ACTIVITIES

Awards

- 2014 & 2015: University scholarship for excellent students of HUST: \$200
- 2015: 1st Class award of Texas Instruments Innovation Challenge Vietnam – North Region: \$800
- 2016: DASAN Zhong Solutions scholarship for HUST excellent students: \$2,500
- 2018: Korea Advanced Institute of Science and Technology (KAIST), MS scholarship: \$20,000/year
- 2021: Presidential Graduate Research Fellowship at Auburn University, USA: \$32,000/year
- 2021: I serve as a reviewer at NeurIPS 2021 workshop.
- 2022: Registration award at CVPR 2022, New Orleans, LA, USA. [cert](#)
- 2023: I got the Diversity Graduate Student Support Award at Auburn University: \$1000. [cert](#)
- I serve as a reviewer at ICLR23-24, CVPR23-24, NeurIPS23, AAAI23, ICCV23, and AISTATS23.

Mentoring

- Viet Pham (HCMUS, Vietnam) - 11/2020 → 04/2021: Semi-supervised Neural Machine Translation with Consistency Regularization for Low-Resource Languages. arXiv preprint. [\[pdf\]](#)
- Son Nguyen (KAIST, South Korea) - 2023: Ranked 1st at [ACM MMSports 2023 Instance Segmentation Challenge](#). Ranked **7/46** in [ICCV 2023 VIPriors Instance Segmentation Challenge](#).

Peer-reviewed Papers and Preprints

- **Under review** [Giang Nguyen](#), Valerie Chen, Anh Nguyen, 2023. **AdvisingNets: Learning to Distinguish Correct and Wrong Classifications via Nearest-Neighbor Explanations.** [\[pdf\]](#)
- **NeurIPS2023** Taesiri, M., [Nguyen, G.](#), Habchi, S., Bezemer CP., Nguyen, A., 2023. **ImageNet-Hard: The Hardest Images Remaining from a Study of the Power of Zoom and Spatial Biases in Image Classification.** [\[pdf\]](#)
- **NeurIPS2022** *[Nguyen, G.](#), *Taesiri, M., Nguyen, A., 2022. **Visual correspondence based explanations improve AI robustness and human-AI team accuracy.** [\[poster\]](#) [\[pdf\]](#)
* denotes equal contributions.
- **NeurIPS2021** [Nguyen, G.](#), Kim, D. and Nguyen, A., 2021. **The effectiveness of feature attribution methods and its correlation with automatic evaluation scores.** [\[pdf\]](#)
- **ICPR2020** [Nguyen G.](#), [Chen S.](#), [Jun T.J.](#), [Kim D.](#), 2021. **Explaining How Deep Neural Networks Forget by Deep Visualization.** [\[pdf\]](#)
- **ICPR2020** [Tran, T.Q.](#), [Nguyen, G.V.](#) and [Kim, D.](#), 2021. **Simple Multi-Resolution Representation Learning for Human Pose Estimation.** [\[pdf\]](#)
- **ICONIP2019** [Kim, H.](#), [Jun, T.J.](#), [Nguyen, G.](#) and [Kim, D.](#), 2019. **Bidirectional LSTM with MFCC Feature Extraction for Sleep Arousal Detection in Multi-channel Signal Data .** [\[pdf\]](#)
- **arXiv** [Nguyen, G.](#), [Jun, T. J.](#), [Tran, T.](#), [Yalew, T.](#), & [Kim, D.](#), 2019. **ContCap: A scalable framework for continual image captioning.** [\[pdf\]](#)
- **arXiv** [Pham, V. H.](#), *[Pham, T. M.](#), *[Nguyen, G.](#), [Nguyen, L.](#), & [Dinh, D.](#), 2023. **Semi-supervised Neural Machine Translation with Consistency Regularization for Low-Resource Languages.** [\[pdf\]](#)
- **arXiv** [Son Nguyen](#), [Mikel Lainsa](#), [Hung Dao](#), [Daeyoung Kim](#), [Giang Nguyen](#), 2023. **Instance Segmentation under Occlusions via Location-aware Copy-Paste Data Augmentation.**[\[pdf\]](#)

INVITED TALKS

- 04/2023: *Towards Useful Visual XAI Methods for Human-AI Collaboration*, [L3S Research Center](#), Delft University of Technology (TU Delft), Netherlands. [slide](#).
- 03/2022: *Evaluating Interpretability in Vision*, [Explainable AI group](#).
- 06/2020: *Explaining How Deep Neural Networks Forget by Deep Visualization*, [ContinualAI](#). [video](#).