Giang Nguyen

Computer Science ◇ Auburn University, AL, USA
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EDUCATION

Auburn University, USA — 08/2021 → now
Ph.D. in Computer Science — Advisors: Anh Nguyen
My research focuses on e(X)plainable AI and human-AI interaction via XAI tools

Korea Advanced Institute of Science and Technology, South Korea — 08/2018 → 08/2020
M.Sc. in Computer Science — Advisor: Daeyoung Kim
Thesis: *Overcoming Catastrophic Forgetting by Deep Visualization*

Hanoi University of Science and Technology, Vietnam — 09/2011 → 06/2016
B.Eng. in Electronics and Telecommunications — Advisor: Minh Nguyen

WORK EXPERIENCES

Anh Nguyen Laboratory, Auburn University, USA — 08/2021 → now
Research Assistant

Data Engineering & Analytics Laboratory, KAIST, South Korea — 08/2018 → 02/2021
Research Assistant

G-Innovations, Hanoi — 02/2018 → 07/2018
Application Software Engineer

DASAN Zhone Solutions Vietnam - DZS Vietnam, Hanoi — 07/2016 → 01/2018
Linux Embedded Software Engineer

AWARDS AND ACTIVITIES

Awards

- 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: $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
- 2022: I serve as a reviewer at ICLR, CVPR, NeurIPS, AAAI, ICCV, and AISTATS 2023.
- 2023: I serve as a reviewer at ICLR 2024.
- 2023: I got the Diversity Graduate Student Support Award at Auburn Univeristy: $1000. cert

Mentoring

- Viet Pham (HCMUS, Vietnam) - 11/2020 → 04/2021: Semi-supervised Neural Machine Translation with Consistency Regularization for Low-Resource Languages. arXiv preprint. [pdf]
- Travis Thompson (Auburn University, USA) - 2023: Interactive Human-AI research.
- Son Nguyen (KAIST, South Korea) - 2023: ICCV 2023 VIPriors Instance Segmentation Challenge.

PUBLICATIONS

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

Peer-reviewed Papers and Preprints

- arXiv preprint Giang Nguyen, Valerie Chen, Anh Nguyen, 2023. **AdvisingNets: Learning to Distinguish Correct and Wrong Classifications via Nearest-Neighbor Explanations**. [pdf]
- arXiv preprint 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]
- arXiv preprint 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]
- CVPR2022-XAI4CV, 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-WHMD, 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 preprint Nguyen, G., Jun, T. J., Tran, T., Yalew, T., & Kim, D., 2019. **ContCap: A scalable framework for continual image captioning**. [pdf]

INVITED TALKS

- 04/2023: *Towards Useful Visual XAI Methods for Human-AI Collaboration*, L3S Research Center, Delft University of Technology (TU Delft), Netherlands (online). slide.
- 06/2020: *Explaining How Deep Neural Networks Forget by Deep Visualization*, ContinualAI (online). video.