Giang (Dexter) Nguyen

Computer Science ◇ Auburn University, AL, USA
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EDUCATION

Auburn University, USA — 08/2021 → 08/2025 (Expected)
Ph.D. in Computer Science — Advisors: Anh Nguyen
I build/evaluate Explainable AI methods that help humans work with AI more effectively.

Korea Advanced Institute of Science & Technology – KAIST, S. Korea — 08/2018 → 08/2020
M.Sc. in Computer Science — Advisor: Daeyoung Kim
Thesis: *Overcoming Catastrophic Forgetting by XAI*

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

JPMorgan AI Research, NY — 06/2024 → 08/16/2024
AI Research Associate

Data Engineering & Analytics Laboratory, KAIST, South Korea — 09/2020 → 02/2021
AI Researcher

Data Engineering & Analytics Laboratory, KAIST, South Korea — 08/2018 → 08/2020
Research Assistant

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

DASAN Zhone Solutions Vietnam, Hanoi — 07/2016 → 01/2018
Software Engineer

ACHIEVEMENTS

- 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
- 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
- 2023: 1^{st}-place and the most innovative solution awards at ACM MMSports 2023 DeepSportradar Challenge: Player Instance Segmentation: $1000. cert
- 2024: Outstanding Doctoral Student Nomination Award, CSSE department, Auburn University (2/240).

ACTIVITIES

- Mentoring Viet Pham (HCMUS, Vietnam) - 11/2020 → 04/2021: Semi-supervised Neural Machine Translation with Consistency Regularization for Low-Resource Languages. arXiv preprint. [pdf]
- Mentoring Son Nguyen (KAIST, South Korea) - 2023: Ranked 1^{st} at ACM MMSports 2023 Instance Segmentation Challenge. Ranked **7/46** in ICCV 2023 VIPriors Instance Segmentation Challenge.
- I has been actively serving as a reviewer for NeurIPS, ICLR, ICML, CVPR, TMLR, ICCV, ECCV, and AAAI.

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

Selected Publications

- Under review Interpretable Table Question Answering via Plans of Atomic Table Transformations. [Work done during JP Morgan AI Research Summer internship, also submitted for US Patent.]
- CVPRW2024 Proceedings Giang Nguyen, Mohammad Reza Taesiri, Sunnie S. Y. Kim, Anh Nguyen, 2024. **Allowing humans to interactively guide machines where to look does not always improve human-AI team's classification accuracy**. [pdf]
- TMLR2024 & NeurIPS2024 IAI Workshop Giang Nguyen, Valerie Chen, Mohammad Reza Taesiri, Anh Nguyen, 2024. **PCNN: Probable-Class Nearest-Neighbor Explanations Improve Fine-Grained Image Classification Accuracy for AIs and Humans**. [pdf] [website]
  Invited presentation at ICLR2025 main conference (100/1513 ≈ 6% TMLR accepted papers).
- NeurIPS2023 Mohammad Reza Taesiri, Giang Nguyen, Sarra Habchi, Cor-Paul Bezemer, Anh Nguyen, 2023. **ImageNet-Hard: The Hardest Images Remaining from a Study of the Power of Zoom and Spatial Biases in Image Classification**. [pdf]
- NeurIPS2022 & CVPR2022 XAI4CV Workshop Giang Nguyen*, Mohammad Reza Taesiri*, Anh Nguyen, 2022. **Visual correspondence based explanations improve AI robustness and human-AI team accuracy**. [pdf]
  **equal contributions.*
- NeurIPS2021 Giang Nguyen, Daeyoung Kim, Anh Nguyen., 2021. **The effectiveness of feature attribution methods and its correlation with automatic evaluation scores**. [pdf]
- ICPR2020 Giang Nguyen, Shuan Chen, Tae Joon Jun, Daeyoung Kim, 2021. **Explaining How Deep Neural Networks Forget by Deep Visualization**. [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.