Giang Nguyen

Research Scientist ◇ Guide Labs, CA, USA
nguyengiangbkhn@gmail.com ◇ https://giangnguyen2412.github.io ◇ +1 334 524 2780

INDUSTRY EXPERIENCES

Guide Labs, CA, USA 06/2025 → now
AI Research Scientist

Pretrain and evaluate interpretable large language models at billion-parameter scale.

JPMorgan AI Research, NY, USA 06/2024 → 08/2024
AI Research Intern

Conduct research on Large Language Models for tabular data (published 1 research paper at TMLR & 1 US patent).

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

Conduct research to evaluate the effectiveness of AI explanations (published 1 research paper at NeurIPS).

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

Optimize the running time of the minutiae detection algorithm by 80% and memory usage by 95% with the same accuracy.

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

Implement network protocols on embedded network devices (e.g. switches, routers) using C/C++.

EDUCATION

Auburn University, USA 08/2021 → 08/2025
Ph.D. in Computer Science advisor: Anh Nguyen
Thesis: *Transforming the black-box decision-making of AI models into explain-then-answer processes*

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 deep visualization*

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

SELECTED PUBLICATIONS

See full list in: https://scholar.google.com/citations?user=l_kfXecAAAAJ

- TMLR2025 Giang Nguyen, Ivan Brugere, Shubham Sharma, Sanjay Kariyappa, Anh Totti Nguyen, Freddy Lecue, 2025. **Interpretable LLM-based Table Question Answering**. [pdf]
- 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 & ICLR2025 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]

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).

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.