# Giang Nguyen

Computer Science & Auburn University, AL, USA

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# **EDUCATION**

Auburn University, AL Ph.D. in Computer Science		Aug 2021 - present Advisors: Anh Nguyen
M.Sc. in Computer Science	ed Institute of Science and Technol ophic Forgetting by Deep Visualization	ogy, South Korea 2018 - 2020 Advisor: Daeyoung Kim
Hanoi University of Scient B.Eng. in Electronics and T	<b>nce and Technology</b> , Vietnam elecommunications	2011 - 2016
WORK EXPERIENCES		
Anh Nguyen Laboratory Research Assistant	, Auburn University	Aug 2021 - present $AL, USA$
· Doing research on both <i>Explainable AI &amp; Computer Vision</i> , deeply interested in human-AI team collaboration via machine explanations. One paper published at NeurIPS2022 and a poster at CVPRW2022.		
<b>Data Engineering &amp; Ana</b> Graduate AI Researcher	lytics Laboratory, KAIST	Sept 2020 - Feb 2021 South Korea
$\cdot$ Conducting research to evaluate the effectiveness of machine explanations on humans and showing the shortcoming of existing evaluation metrics. One paper published at NeurIPS2021.		
<b>Data Engineering &amp; Ana</b> Research Assistant	lytics Laboratory, KAIST	Aug 2018 - Aug 2020 South Korea
-	sts at Qualcomm-KAIST Innovation Awards 2019. nputer vision research and publishing 3 papers at ICPR and ICONIP.	
<b>G-Innovations</b> Application Software Engine	eer	Feb 2018 - Jul 2018 <i>Hanoi</i>
* 0	on algorithm running time by 80% and oot using AIML and Java to interact wit	
<b>DASAN Zhone Solutions</b> Linux Embedded Software E	s Vietnam - DZS Vietnam ngineer	Jul 2016 - Jan 2018 Hanoi
<ul> <li>One of 3 best interns (amony</li> <li>Implementing network proto</li> </ul>	g 12) in Fall 2016 of DZS. ocols on embedded network devices (e.g.	switches, routers) by C/C++.
PUBLICATIONS	https://scholar.google.com/cita	tions?user=l_kfXecAAAAJ

# **Peer-reviewed Papers and Preprints**

- <u>\*Nguyen, G.</u>, \*Taesiri, M., Nguyen, A., 2022. Visual correspondence-based explanations improve AI robustness and human-AI team accuracy. (CVPR2022-XAI4CV, NeurIPS2022). [poster] [pdf]
   \* denotes equal contributions.
- · <u>Nguyen, G.</u>, 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]
- <u>Nguyen, G.</u>, Jun, T. J., Tran, T., Yalew, T., & Kim, D. (2019). ContCap: A scalable framework for continual image captioning. arXiv preprint. [pdf]
- Tran, T.Q., <u>Nguyen, G.V.</u> and Kim, D., 2021, January. Simple Multi-Resolution Representation Learning for Human Pose Estimation. (ICPR2020). [pdf]
- · Kim, H., Jun, T.J., <u>Nguyen, G.</u> and Kim, D., 2019, December. Bidirectional LSTM with MFCC Feature Extraction for Sleep Arousal Detection in Multi-channel Signal Data. (ICONIP2019). [pdf]
- $\cdot$  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

- $\cdot\,$  2014 & 2015: University scholarship for excellent students of HUST: \$200
- $\cdot$  2015: 1st Class award of Texas Instruments Innovation Challenge Vietnam North Region: \$800
- $\cdot$  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.
- $\cdot$  2022: Registration award at CVPR 2022, New Orleans, LA, US: \$550.
- $\cdot$  2022: I serve as a PC (reviewer) at AAAI 2023 main conference.