

# Manh-Ha Bui

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Ph.D. Student@JHU

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## RESEARCH INTERESTS

I am interested in developing Unsupervised and Reliable Machine Learning algorithms, while at the same time understanding why they work in high-dimensional statistics. My work often involves Representation Learning, Probabilistic Graphical Models, Bayesian Inference, and its applications in Generalization and Uncertainty problems.

## EDUCATION

<b>Johns Hopkins University</b> Ph.D. in Computer Science Advisor: Anqi (Angie) Liu Research topics: Reliable Machine Learning	Baltimore, MD, USA Aug. 2022 – Present
<b>Posts &amp; Telecommunications Institute of Technology (PTIT)</b> B.Eng. in Information Technology (Elite Program)	Hanoi, Vietnam Aug. 2015 – May 2020

## RESEARCH EXPERIENCE

<b>Machine Learning Research Resident</b> VinAI Research	Dec. 2019 – Dec. 2021 Hanoi, Vietnam
<ul style="list-style-type: none"><li>• Advisors: Toan Tran, Dinh Phung</li><li>• Research topics: Representation Learning, Domain Generalization, Active Learning</li><li>• Completed VinAI's courses in: Linear Algebra, Probability &amp; Statistics, Statistical Machine Learning, Advanced Probability &amp; Statistics, Deep Generative Models</li></ul>	
<b>Undergraduate Research Assistant</b> Machine Learning & Applications Laboratory, Department of Computer Science, PTIT	Sep. 2018 – Nov. 2019 Hanoi, Vietnam
<ul style="list-style-type: none"><li>• Advisor: Cuong Pham</li><li>• Research topics: Signal Processing, Pattern Recognition in Time Series</li><li>• Developed AI Systems: wearable devices, applications, models for Human Activity Recognition</li></ul>	

## INDUSTRIAL EXPERIENCE

<b>AI Engineer</b> VinAI Research	Jan. 2022 – Jul. 2022 Hanoi, Vietnam
<ul style="list-style-type: none"><li>• Worked on Image to Image Domain Translation: Day-to-Night for Street View</li><li>• Worked on Traffic Signs Distance Estimation by Monocular Depth Estimation &amp; Static Object Tracking</li></ul>	
<b>Software Engineer Intern</b> SCH, eMagiz - CAPE Groep	Nov. 2016 – Aug. 2018 Enschede, Twente, Netherlands
<ul style="list-style-type: none"><li>• Developed outsourcing applications with the Mendix platform based on TypeScript &amp; JavaScript</li><li>• Designed systems based on the Mendix UML, widgets, microflow</li></ul>	

## AWARDS

Johns Hopkins University Doctoral Fellowship	2022 – Present
Second Prize in The AI National Hackathon 2020 @AI4VN	2020
Third Prize in The AI4VN National Grand Finale - AI4VietNam National Hackathon	2019
Third Prize in The ACM ICPC Vietnam National Programming Contest	2017
Posts & Telecommunications Institute of Technology (PTIT) Undergraduate Scholarship	2015 – 2020

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## PUBLICATIONS

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- [1] **\*Manh-Ha Bui**, Toan Tran, Anh-Tuan Tran, Dinh Phung. Exploiting Domain-Specific Features to Enhance Domain Generalization. *Advances in Neural Information Processing Systems* (NeurIPS), 2021.
- [2] **\*Manh-Ha Bui**, Viet-Anh Tran, Cuong Pham. Personalized breath based biometric authentication with wearable multimodality. arXiv pre-print, 2020.
- [3] \*Khanh Nguyen Trong, **\*Ha Bui**, Cuong Pham. Recognizing hand gestures for controlling home appliances with mobile sensors. *IEEE International Conference on Knowledge and Systems Engineering* (KSE), 2019.