Quan Nguyen

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Education

2019 - present **Washington University in St. Louis, St. Louis, MO**
Ph.D. in Computer Science

Research interests: design of AI systems and decision-making theory under uncertainty

Advisors: Profs. Sanmay Das and Roman Garnett

2015 - 2019 **DePauw University, Greencastle, IN**
B.A. in Computer Science and Mathematics

summa cum laude with highest honors
Minor degree in Philosophy

Advisors: Profs. Khadija Stewart, Zhixin Wu, and Ashley Puzzo

Work Experiences

Aug 2019 - present **Graduate Research Assistant** Washinton University in St. Louis, MO
McKelvey School of Engineering

Researching an approach to achieve fairness in AI and machine learning systems using Bayesian methods.

Aug 2017 - May 2019 **Research Assistant** DePauw University, Greencastle, IN
Computer Science Department

Researched ensembling practices in machine learning in various contexts by combining unique insights from individual learning agents. A resulting paper was presented at the 2017 MCURCSM conference, and an implemented model finished in the top 15 of Kaggle's DonorsChoose competition.

May 2018 - Sep 2018 **Data Analysis Engineer Intern** Micron Technology, Inc., Boise, ID
R&D Department

Designed a data pipeline to automatically detect defects and match them to potential causes using statistical and machine learning methods. Findings resulted in better interpretability in both the defect-detecting tools and the matching algorithm.

Awards & Honors

2019 Robert J. Thomas Outstanding Senior Award, Computer Science Department, DePauw University

2019 David Becker Fellow, ITAP Program, DePauw University

2017 - 2019 Perennial Student Scholarship Recipient, Sigma Nu National Fraternity

2015 - 2019 Science Research Fellow, DePauw University

2019 Phi Beta Kappa, DePauw University Chapter

2018	Youngest Published Book Author, Packt Publishing
2018	Wylie Condit Scholarship Recipient, Computer Science Department, DePauw University
2018	Wylie Condit Scholarship Recipient, Mathematics Department, DePauw University
2017	Computing resources of over $8,000 in value by the NSF
2016	First Place, Michigan Autumn Take-Home Mathematics Challenge
2015	Second Prize, Vietnam National Mathematics Olympiad

Activities

Author	Books on artificial intelligence, data science and Python programming for Packt Publishing
Instructor	Online courses on machine learning, deep learning, and Python programming
Writer	Articles and blog posts for the Python Software Foundation (PSF)
Writer	Technical tutorials on DataScience.com (part of Oracle)
Reviewer	Various technical books on Python programming and scientific computing
Member	Graduate Student Association Board, Washington University in St. Louis
President	DePauw Data Science Group, DePauw University (Aug 2018 - May 2019)

Publications & Media

- Quan Nguyen. Deep learning with Google Colab: *Implementing and training deep learning models in a free, integrated environment.* Udemy, 2019.
- Quan Nguyen. Hands-on Application Development with PyCharm: *Accelerate your Python applications using practical coding techniques in PyCharm.* Packt Publishing Ltd, 2019.
- Gabriele Lanaro, Quan Nguyen, Sakis Kasampalis. Advanced Python Programming: *Build high performance, concurrent, and multi-threaded apps with Python using proven design patterns.* Packt Publishing Ltd, 2019.
- Quan Nguyen. Mastering Concurrency in Python: *Create faster programs using concurrency, asynchronous, multithreading, and parallel programming.* Packt Publishing Ltd, 2018.
- Quan Nguyen. "Asynchronous Programming in Python for Web Scraping". In: *Learn data science best practices of DataScience.com (part of Oracle)* (Dec. 2018).
- Quan Nguyen, Mason Seeger and Steven Bogaerts. "Ensembles of Gradient Boosting Regressors in Housing Price Error Prediction". *The Midstates Conference For Undergraduate Research in Computer Science and Mathematics (MCURCSM) conference, 2017.*

Technologies

Python, R, Anaconda, PyTorch, Scikit-learn, Pandas, NumPy, Jupyter, Google Colab

Teaching Experiences

- Instructor for online courses from platforms such as Udemy and EC Council
  4.2 / 5.0 average rating, 7,000+ enrolled students
- Presenter at DePauw Data Science Group meetings on topics of scientific computing
- Teaching assistant for Computer Science courses at DePauw University
- Facilitator of the *Python programming* rotation in the ITAP program at DePauw University