

Nhan Luong

RESEARCH ASSISTANT & TEACHING ASSISTANT · VINUNI-ILLINOIS SMART HEALTH CENTER

VinUniversity, Hanoi, Vietnam

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Education

Monash University

Melbourne, Australia

BACHELOR OF COMPUTER SCIENCE (HONOURS) | FIRST-CLASS HONOURS

July 2021 - July 2022

- GPA: 4.0 | WAM: 88.125.
- Thesis: An Exploration of Immersive Smoothed-Particle Hydrodynamics Data Visualisation in Astrophysics and Astronomy.
- Supervisors: Prof. Daniel Price, Dr. Barrett Ens & Dr. Maxime Cordeil.

Monash University

Melbourne, Australia

BACHELOR OF COMPUTER SCIENCE IN ADVANCED COMPUTER SCIENCE | HIGH DISTINCTION

July 2018 - June 2021

- GPA: 3.6 | WAM: 80.32.

Vietnam National University

Hanoi, Vietnam

BACHELOR OF SCIENCE ADVANCED (HONOURS), PHYSICS

August 2017 - December 2017

- Transferred.

Professional Experience

VinUniversity | VinUni-Illinois Smart Health Center

Hanoi, Vietnam

RESEARCH ASSISTANT

October 2022 - Present

Monash University | Immersive Analytics Lab

Melbourne, Australia

RESEARCH SCHOLARSHIP

November 2021 - March 2022

- Program: Undergraduate Vacation Research Scholarship.
- Project: Hand Gesture Capture for Interactive Data Analytics - Continued web application development.
- Prepare and conduct user study to gather data for publication.
- Supervisor: Dr. Barrett Ens.

Monash University | Immersive Analytics Lab

Melbourne, Australia

RESEARCH VOLUNTEER

April 2021 - August 2021

- Project: Hand Gesture Capture for Interactive Data Analytics - Unity, C#, JavaScript, Mediapipe, Three.js, JQuery.
- Took over development of an user study web application to record intuitive hand gestures.
- Supervisor: Dr. Barrett Ens.

Deloitte Digital | Consulting

Melbourne, Australia

INDUSTRY-BASED LEARNING PLACEMENT | SOFTWARE ENGINEER

January 2021 - June 2021

- Digital consulting and Agile software development experience.
- Experience with Confluence, JIRA, BitBucket/Git, Azure build pipelines and SonarQube.
- Software design, development, testing, pilot readiness and delivery.
- Project: Co-Worker Mobile Application - Kotlin, Swift, JavaScript for APIs with Postman, AWS S3 & AWS Lambda.
- Project: AWS Virtual Avatar - Unity, C#, AWS Lex, AWS Polly, AWS Transcribe.
- Project: Interactive AR Pegboard - OpenCV, PyQt5, C#, Unity.

Vietnam STEM Academy

Hanoi, Vietnam

SCIENCE & ROBOTICS COURSE INSTRUCTOR

May 2018 - July 2018

Honours & Awards

- 2021 Undergraduate Vacation Research Scholarship, Monash University
- 2020 Information Technology IBL Placement Scholarship, Monash University
- 2018 Information Technology International Merit Scholarship, Monash University

Licenses & Certifications

CERTIFICATIONS

- Computational Fluid Dynamics Fundamentals Course (Udemy, May 2021)
- QC151 - Quantum Physics for Quantum Computing (Udemy, May 2021)
- QC201 - Advanced Math for Quantum Computing (Udemy, May 2021)

LICENSES

- Standard Mental Health First Aider (Mental Health First Aid Australia, August 2019)

Skills

LANGUAGES

- Vietnamese (Native) & English (Advanced user).

PROGRAMMING LANGUAGES

- Python (NumPy, SciPy, Matplotlib, Jupyter, PyQt), R, C#, Java, JavaScript, Kotlin.

CLOUD COMPUTING

- Amazon Web Services - Cloud Practitioner.

AI & MACHINE LEARNING

- Reinforcement Learning in Python: OpenAI Gym & Flatland Challenge.
- Computer Vision in Python: TensorFlow, OpenCV, PyTorch.
- Basic Machine Learning in R: SVM, Keras, XGBoost.

DATABASES

- Oracle SQL.

Volunteering & Extracurricular Activities

MONASH ASSOCIATION OF CODING

- Events Officer: Hosted and helped coordinate workshops, hackathon and seminars aimed at teaching computing and tech skills to students of all background.

MONASH STUDENT ASSOCIATION

- Volunteer, Events Coordinator.

MONASH UNIVERSITY

- Peer Mentor: Provided mentoring guidance to 11 student mentees as they started first year at Monash, supporting them through orientation and their transition to university.
- Discovery Day Ambassador.

FREELANCE PHOTOGRAPHER

- Casual event photography. Main interests are street photography and astrophotography.