

Anh Hang Mai Vo



PROFILE

I have a background in human biology (biomedicine) and independently studied mathematics and computer science before my Master's in Bioinformatics at Freie Universität Berlin. My interests include mathematical modeling, algorithmic bioinformatics, and dynamic systems. As I almost complete my coursework, I am looking for a student/part-time position starting October 2025 (10–20 hours/week).

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: **Vietnam**

Languages: **Vietnamese** (native), **English** (C1), **German** (A2), **Chinese** (HSK2)

SKILLS

- Python, SQL, C/C++, Java
- R, Matlab, Bash script, Awk
- Machine Learning, Biostatistics, Data Visualization
- MS Word, Excel, PowerPoint
- Scientific Illustration (Adobe, Clip Paint Studio, Procreate)
- Communication and team collaboration

RESEARCH INTERESTS

Mathematical Modellings in Bioinformatics, Biomedical Data Science (Statistics + Machine Learning), Data Visualisation

EDUCATION

MASTER OF SCIENCE IN BIOINFORMATICS. *Freie Universität Berlin (Berlin, Germany).* **2024–present**

◇ Focus Area: Complex Systems in Bioinformatics.

BACHELOR OF SCIENCE IN BIOLOGY. Talented Program. *Vietnam National University (Hanoi, Vietnam) - University of Science.* **2017–2021**

◇ Thesis title: *A novel bioinformatics pipeline for mitochondrial disorder diagnosis in Vietnam.* Score: 9.8/10

◇ Variant Calling and Annotation, 2nd Generation Sequencing Data Analysis.

◇ GPA: 3.36/4

COMPUTER SCIENCE AND MATHEMATICS ADVANCED CLASS. *Chu Van An High School for the Gifted (Hanoi, Vietnam).* **2014–2017**

◇ Algorithmic design, competitive programming, mathematical applications in computer science.

◇ Joined Vietnam National Olympiad in Informatics (Competitive Programming), won 3rd prize in 2015 regional merit competition, and 4th prize in 2016 provincial merit competition. PASCAL and C are the main programming languages.

ADDITIONAL EDUCATION

ALGORITHMS AND DATA STRUCTURES MICROMASTERS® PROGRAM. *University of California, San Diego, EdX. (Online)* **2023.12–2024.05**

◇ Searching, sorting, Dynamic programming algorithms; Data Structures Fundamentals (Hash, queue, stack, tree); Graph algorithms; Dynamic programming: Applications in machine learning and genomics; Graph algorithms in genome sequencing; NP-Complete problems; String processing and pattern matching algorithms; Build a genome assembler

DATABASE MANAGEMENT SYSTEMS MICROMASTERS® PROGRAM. *University of Maryland Baltimore County, EdX. (Online)* **2024.02–2024.04**

◇ Relational database management systems, relational database design, NoSQL databases

14TH VIZBI DATA VISUALIZATION CONFERENCE AND MASTERCLASS. *University of Southern California in Los Angeles, USA. (Online)* **2024.03**

◇ An intensive training event covering state-of-the-art methods in data visualization, which helps us explore the large, complex nature of biological data and communicate more effectively.

THE 25TH BOLOGNA WINTER SCHOOL IN BIOINFORMATICS. *University of Bologna, Italy. (Online)* **2024.02**

◇ Topic: Artificial Intelligence, Deep Learning and protein functional annotation: the state-of-the-art.

SUMMER SCHOOL IN COMPUTATIONAL NEUROSCIENCE. *Neuromatch Academy, USA. (Online)* **2023.07–2023.08**

◇ Project: Relation between Neural Activity and Personality during Working Memory Task in the HCP Dataset

◇ Learned statistical methods and models in computational neuroscience, with machine learning and deep learning assisted in discovering patterns in neurological data.

WORKING EXPERIENCE

MEDICAL SPECIALIST IN MOLECULAR GENETICS at *Vinmec Healthcare System, Vinmec High Tech Center, Department of Medical Genetics (Vietnam)*. **2022.05–2024.04**

◇ Process automation with Python and TeX, variant calling & annotating, medical genetics case studies, data management with Microsoft Excel, bioinformatics pipeline, automation of reports.

INTERN at *Vinmec High Tech Center, Department of Medical Genetics (Vietnam)*. **2019.02–2021.05**

◇ Mastered a range of molecular biology experimental techniques (PCR, Sanger sequencing, 2nd generation sequencing, gel electrophoresis...)

◇ Bachelor thesis project: focused on the development of a bioinformatics pipeline, designed to analyze second-generation sequencing data from mitochondrial DNA.

◇ Applied bioinformatics tools and methodologies to enhance understanding of mtDNA variations, paving the way for improved diagnostic strategies for mitochondrial diseases.

MARKETING INTERN at *Samsung Genome Institute, Geninus, Geninus Vietnam* **2019.07–2019.09**

◇ Translated genetic testing service brochures and reports from English to Vietnamese for healthcare professionals; create communication materials utilizing Adobe Illustrator/Photoshop on genetic diseases.

RESEARCH INTERN at *Vietnam Academy of Science and Technology (Vietnam)*. **2016.05–2018.01**

◇ Learned the basics of molecular techniques, for example, PCR, electrophoresis, DNA quantification, and genetic profiling.

FREELANCE GRAPHIC DESIGN AND SCIENTIFIC ILLUSTRATION **2018.09–present**

◇ Created scientific illustrations for academic publications.

◇ Designed educational infographics and diagrams, simplifying scientific processes for diverse audiences.

◇ Mastered various graphic design tools (e.g., Adobe Creative Suite, Seaborns, R, ...) to deliver tailored visual content with high-quality visual content to meet the specific needs of scientific publication.

AWARDS AND SCHOLARSHIPS

UNIVERSITY MERIT SCHOLARSHIP **2017–2021**

◇ For excellent academic record in every semester.

FIRST PRIZE (REGIONAL) AND THIRD PRIZE (NATIONAL) IN STAR AWARD 2020 - ENGLISH SPEAKING CONTEST **2020**

◇ My team had the 1st prize at regional merit and 3rd prize at national merit contest with an English presentation about a healthcare assistance application integrated with blockchain technology, as a startup idea.

SOCIAL ACTIVITIES

SCIENTIFIC ILLUSTRATOR AND GRAPHIC DESIGNER at *PSYCancer* **2024**

◇ I created visuals to support cancer patients and families through education and outreach

MEDIA DIRECTOR at *VNU Student Developer Club (by Google) in Vietnam*. **2020**

◇ I led a team of students creating content and visual communication materials to keep university students informed about the latest technology trends, foundational programming knowledge, and upcoming contests.

MEDIA DIRECTOR at *Shecodes Vietnam*. **2019**

◇ Shecodes Vietnam is a project dedicated to empowering young women to learn programming, thereby bridging the gender gap in technology. My team developed visual communication and educational materials, and organized a hackathon.

PUBLICATIONS

Nguyen, Dinh-Dung, Lan Tuyet Phung, Huyen Thi Thanh Tran, Ha Thi Thanh Ly, **Anh Hang Mai Vo**, Nhung Phuong Dinh, Phuong Mai Doan et al. "Molecular subtypes of Adenovirus-associated acute respiratory infection outbreak in children in Northern Vietnam and risk factors of more severe cases." *PLoS Neglected Tropical Diseases* 17, no. 11 (2023): e0011311.

Nguyen, Dinh-Dung, Nhan Thi Ho, Lynn G. Dover, **Anh Hang Mai Vo**, Ha Thi Thanh Ly, Phuong Mai Doan, Hang Thi Nguyen, Nguyen Thi Thao Luu, An Nhat Pham, and Huyen Thi Thanh Tran. "Novel variant and known mutation in 23S rRNA gene of *Mycoplasma pneumoniae*, Northern Vietnam, 2023." *Emerging Infectious Diseases* 30, no. 5 (2024): 1034.