



VINH CHAU

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- 🏠 **Google Scholar :** scholar.google.com/citations?user=8DSaPmwAAAAJ



About Me

I hold a Bachelor's degree in Mathematics and a Master's in Computer Science from the University of Science at Vietnam National University in Ho Chi Minh City. My academic background has equipped me with a strong foundation in quantitative analysis, problem-solving, and computational techniques. Additionally, I have pursued coursework in public health and epidemiology, furthering my understanding of addressing complex healthcare challenges. My unwavering dedication to advancing knowledge at the intersection of computer science, public health, and epidemiology positions me to contribute significantly to research in these fields.

Work Experience

- 01/2022 – Current 📌 **Research Assistant**
Molecular Epidemiology Group
Oxford University Clinical Research Unit - Ho Chi Minh City, Viet Nam
- Managed research data quality, ensuring the accuracy of studies.
 - Developed and executed statistical analysis plans to support studies.
 - Contributed to presentations, grant writing, and manuscript preparation.
 - Supervised students on advanced R programming and clinical statistics.
 - Provided technical support across diverse research projects.
- 10/2017 – 12/2021 📌 **Data Coordinator**
Enteric Infection Group
Oxford University Clinical Research Unit - Ho Chi Minh City, Viet Nam
- Led and coordinated clinical research projects.
 - Ensure data quality and accuracy throughout the clinical trial studies.
 - Coordinate site visits for data monitoring and verification.
 - Conducted statistical and geographic analyses to support studies.
 - Designed and implemented monitoring systems for clinical trial research.
 - Train research staff on data collection procedures and data entry systems.
 - Manage vaccine storage conditions for the studies.
- 05/2015 – 08/2017 📌 **Mathematics Teacher Assistant**
Faculty of Mathematics
Titan Education Center - Ho Chi Minh City, Viet Nam
- Lesson plan preparation assistance.
 - Classroom material setup.
 - Individual student support for learning challenges.
 - Teacher's task assistance, such as grading and parent communication
 - Student adjustment, learning, and socialization support.

Education

- 11/2017 – 11/2019  **Master of Science in Computer Science**
Faculty of Information Technology
University of Science, Vietnam National University - Ho Chi Minh City, Viet Nam
- **Supervisors:** Prof. Stephen Baker and Dr Le Thi Nhan
 - **Thesis Title:** Feature selection methods for efficient Rotavirus diagnosis
 - **GPA:** 3.22/4
 - **Thesis Grade:** 3.5/4
- 08/2013 – 08/2017  **Bachelor of Science in Mathematics**
Faculty of Mathematics and Computer Science
University of Science, Vietnam National University - Ho Chi Minh City, Viet Nam
- **Supervisors:** Assoc. Prof. Pham The Bao
 - **Thesis Title:** A deep learning approach for predicting protein binding sites
 - **GPA:** 3.33/4.00
 - **Thesis Grade:** 4.00/4.00

Certificates

- 06/2024  **Google Advanced Data Analytics**
Coursera - Google Learning Program/Vietnam National Innovation Center
<https://coursera.org/verify/specialization/3V6M6WEY3HJ2>
- 02/2024  **Google IT Support**
Coursera - Google Learning Program/Vietnam National Innovation Center
<https://coursera.org/verify/specialization/R49P7L9Y8LDP>
- 07/2023  **Google Data Analytics**
Coursera - Google Learning Program/Vietnam National Innovation Center
<https://coursera.org/verify/specialization/J8WBCPQQEN5M>
- 03/2023  **Epidemiology for Public Health**
Coursera - Imperial College London
<https://coursera.org/verify/specialization/PX8G6TP2VT7D>
- 09/2022  **Genome Information 2022**
Wellcome Connecting Science
- 10/2021  **Medical Statistics**
Stanford Online, Stanford Center for Professional Development
- 09/2020  **Vaccine Safety Basics**
Pasteur Institute of Ho Chi Minh City
No. 3021/B08-PAS
- 05/2019  **Diagnosis, Therapeutics HIB/AIDS Disease**
Hospital of Tropical Diseases - Ho Chi Minh city, Viet Nam
No. 29/2019/GCN-BVBNĐ
- 08/2016  **Microsoft Office Specialist - Office Excel 2010**
IIG Viet Nam
Identification Code: Pz2K-uGFu

Language Skills

Mother tongue(s):  **Vietnamese**

Other language(s):  **English:** IELTS Overall 5.5

- **Reading:** 6.5
- **Listening:** 6
- **Writing:** 4.5
- **Speaking:** 5.0

Other Skills

Coding  Python, R, C/C++, Matlab, \LaTeX , Kotlin, Visual Basic.

Databases  SQL Server, MySQL, Microsoft Access.

Data Analysis  Orange, Tableau, R, Microsoft Power-BI

Design  Proficient in Adobe Photoshop, Adobe Illustrator, Adobe Audition, Coredraw

Office  Advanced user of Google Workspace and Microsoft Office.

Research Publications

Journal Articles

- 1 Q. Nguyen, Y. T. P. Nguyen, T. T. Ha, D. T. N. Tran, P. V. Voong, **V. Chau**, P. L. N. Nguyen, N. T. Q. Le, L. P. H. Nguyen, T. T. N. Nguyen, T. V. Trinh, J. J. Carrique-Mas, S. Baker, G. Thwaites, M. A. Rabaa, M. Choisy, H. T. Chung, and D. T. Pham, "Genomic insights unveil the plasmid transfer mechanism and epidemiology of hypervirulent klebsiella pneumoniae in vietnam," *Nature Communications*, vol. 15, no. 1, p. 4187, May 2024. DOI: 10.1038/s41467-024-48206-3.
- 2 N. H. M. Truong, Q. Nguyen, P. V. Voong, **V. Chau**, N. H. T. Nguyen, T. H. M. Nguyen, P. H. Vo, L. T. Nguyen, T. T. P. Ha, L. P. H. Nguyen, P. H. Le, D. P. Thanh, and H. D. Nguyen, "Genomic characterization of aeromonas spp. isolates from striped catfish with motile aeromonas septicemia and human bloodstream infections in vietnam," *Microbial Genomics*, vol. 10, no. 5, May 2024, ISSN: 2057-5858. DOI: 10.1099/mgen.0.001248.
- 3 T. T. N. Dung, P. V. Vinh, **V. Chau**, N. P. H. Lan, N. L. N. Phuong, L. T. Q. Ngan, G. Thwaites, L. Thwaites, M. Rabaa, A. T. Nguyen, *et al.*, "Development and validation of multiplex real-time pcr for simultaneous detection of six bacterial pathogens causing lower respiratory tract infections and antimicrobial resistance genes," *BMC Infectious Diseases*, vol. 24, no. 1, p. 164, Feb. 2024. DOI: 10.1186/s12879-024-09028-2.
- 4 T. T. Quỳnh, H. P. Thảo, H. M. Phương, **C. Vinh**, L. T. M. Vân, N. P. T. Nhiên, N. V. V. Châu, and N. T. H. Yến, "Đánh giá chi phí – hiệu quả của vancomycin trước và sau khi áp dụng kỹ thuật theo dõi nồng độ thuốc trong máu bằng thông số auc mục tiêu tại bệnh viện bệnh nhiệt đới thành phố hồ chí minh giai đoạn 2020-2021," *Tạp chí Y học Việt Nam*, vol. 534, Jan. 2024, ISSN: 1859-1868. DOI: 0.51298/vmj.v534i1b.8273.
- 5 D. T. H. Diep, H. M. Tuan, K. M. Ngoc, **C. Vinh**, T. T. N. Dung, V. V. Phat, Q. Nguyen, D. T. H. Tam, L. V. Nien, B. T. H. Duyen, C. T. Phung, N. H. Bac, T. D. Tuan, G. Thwaites, M. A. Rabaa, and D. T. Pham, "The clinical features and genomic epidemiology of carbapenem-resistant acinetobacter baumannii infections at a tertiary hospital in vietnam," *Journal of Global Antimicrobial Resistance*, vol. 33, pp. 267–275, Apr. 2023, ISSN: 2213-7165. DOI: 10.1016/j.jgar.2023.04.007.

- 6 N. Quynh, N. T. T. Nguyen, P. Phuong, **C. Vinh**, N. L. P. Huong, N. T. Duc, H. T. Thanh, L. N. T. Quynh, V. D. Thuy, B. Stephen, T. G. E., R. M. A., and P. D. Thanh, "Genomic insights into the circulation of pandemic fluoroquinolone-resistant extra-intestinal pathogenic *Escherichia coli* ST1193 in vietnam," *Microbial Genomics*, vol. 7, no. 12, Dec. 2021, ISSN: 2057-5858. DOI: 10.1099/mgen.0.000733.
- 7 R. de Alwis, T. M. Phuc, B. Y. H. Bai, N. L. T. Quynh, P. T. T. Tam, T. T. N. Dung, N. T. T. Nhan, **C. Vinh**, H. V. Hien, L. T. H. Nhat, N. T. T. Hong, N. T. M. Tuyen, H. T. T. Trang, L. P. Thao, V. T. N. Diep, P. T. H. Chau, L. Q. Thinh, H. T. N. Thu, N. N. Hang, M. C. Danh, T. D. Hao, T. A. Dao, L. Dai, V. T. H. Diu, N. T. En, N. T. T. Hanh, L. T. Hanh, H. P. T. Hien, N. T. T. Linh, T. C. Darton, G. E. Thwaites, E. Kestelyn, L. L. Vi, B. T. T. Tien, H. T. D. Tuyet, C. Anderson, and S. Baker, "The influence of human genetic variation on early transcriptional responses and protective immunity following immunization with rotarix vaccine in infants in ho chi minh city in vietnam: A study protocol for an open single-arm interventional trial," *Wellcome Open Research*, vol. 5, Oct. 2020. DOI: 10.12688/wellcomeopenres.16090.1.
- 8 T. P. Quang, R. M. A, L. D. Huy, T. D. Quang, Q. T. Dai, Q. H. Linh, H. T. N. Anh, D. P. Cong, N. N. Duy, T. T. Anh, Q. L. Ngoc, P. T. My, **C. Vinh**, K. N. Cong, A. D. Duc, D. T. Nhu, T. Guy, van Doorn H Rogier, C. Marc, and O. C.-1. R. Group, "The first 100 days of severe acute respiratory syndrome coronavirus 2 (sars-cov-2) control in vietnam," *Clinical Infectious Diseases*, vol. 72, no. 9, e334–e342, Aug. 2020, ISSN: 1058-4838. DOI: 10.1093/cid/ciaa1130.

Conference Proceedings

- 1 **V. Chau**, D. T. Thi Ngoc, P. T. My, P. Duy, B. Stephen, R. Maia, and T. N. Le, "Feature selection methods for effective diagnosis of rotavirus infection: A comparative evaluation," in *15th International Conference on Knowledge and Systems Engineering, KSE2023, Hanoi, Vietnam, October 18-20, 2023*, IEEE, Oct. 2023, pp. 1–6. DOI: 10.1109/KSE59128.2023.10299472.

Honours and Awards

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| 04/2021 | <p>■ OUCRU PE Seed Award</p> <ul style="list-style-type: none"> ● Institution: Oxford University Clinical Research Unit - Ho Chi Minh City, Viet Nam ● Project Title: <i>Fostering clinical research procedure and barrier understanding through an interactive board game</i> ● Role: Principal Investigator ● Prize Amount: \$5,500 ● Link: https://www.oucru.org/project/fostering-an-understanding-of-clinical-research-through-an-original-interactive-board-game/ |
| 10/2019 | <p>■ IoT Startup 2019</p> <ul style="list-style-type: none"> ● Institution: Saigon Hi-tech Park Incubation Center - Ho Chi Minh City, Viet Nam ● Project Title: <i>OmniGo: Ecosystem expands the connection between users and daily transaction locations</i> ● Role: Co-Founder ● Placement: First place ● Link: https://dost.hochiminhcity.gov.vn/hoat-dong-so-khcn/chung-ket-iot-startup-2019-giai-quyet-cac-nhu-cau-cu-doanh-nghiep-va-xa-hoi/ |

Volunteering

10/2017 – 10/2018

📌 **Moderator**

Public Engagement Group

Oxford University Clinical Research Unit - Ho Chi Minh City, Viet Nam

- Coordinating and guiding online chat rooms for students and scientists in Project "Chat with Scientists"

06/2017 – 10/2017

📌 **Research Volunteer**

Enteric Infection Group

Oxford University Clinical Research Unit - Ho Chi Minh City, Viet Nam

- Serology data analysis (3,500 data points, three pathogens)
- Genotyping classifier construction (500 DNA data points)
- Recruitment poster design for clinical research
- Management file development for clinical research

References

Dr. Pham Thanh Duy

Head of Molecular Epidemiology Group

Centre for Tropical Medicine

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