Thinh Ong

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EDUCATION

2022-2026	PhD	University of Oxford, United Kingdom
2012-2018	MD	University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam

EMPLOYMENT HISTORY

2021-2022	Research assistant, Mathematical Modelling Group, Oxford University Clinical Research Unit, Vietnam
2020-2021	Editorial assistant, MedPharmRes, University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam
2019-2020	Research intern, Cancer Epigenetics Lab, Garvan Institute of Medical Research, Australia
2019-2020	Research assistant, Center for Population Health Sciences, Hanoi University of Public Health, Vietnam
2018-2023	Biostatistical consultant, Infertility Department, Tu Du Hospital, Vietnam

GRANTS

I have successfully secured $182,474 in research grants since 2022. Further details are provided below.

2024-2025	$27,694	PI	Modelling measles and hand-foot-mouth disease transmission dynamics in Ho Chi Minh city. *Funding from OUCRU Programme Scientific Committee.*
2023-2025	$29,961	PI	The impacts of 15-month disruption in childhood vaccination programme on vaccination coverage and seroprevalence in Ho Chi Minh city. *Funding from OUCRU Programme Scientific Committee.*
2022-2024	$20,437	PI	An R package for modelling infectious disease parameters based on serological and social contact data. *Funding from OUCRU Programme Scientific Committee.*
2024-2025	$104,382	Co-I	Research cultures in Southeast Asia. *Funding from Wellcome.*

AWARDS

2022-2026	PhD studentship funded by OUCRU and the NDM Tropical Network Fund, University of Oxford
2019	Second Prize for Outstanding Presentation at the 36th Science and Technology Conference, University of Medicine and Pharmacy at Ho Chi Minh City
2018	Awarded for achieving the highest GPA over the 6-year MD programme—the highest in the school's history
2018	Award for the student with the highest dissertation score
2014-2018	Annual award for the student with the highest GPA each academic year

RESEARCH TEAM

Tenure	Role	Name	Next destination
2024-now	RA	Pham Nguyen The Nguyen	
2023-now	RA	Phan Truong Quynh Anh	
2022-2023	RA	Huynh Ngoc Tuyen	PhD programme at University of Oxford

2024	Intern	Nguyen Thanh Lam	MPH programme at University of Caen Normandie
2024	Intern	Julian Hough	BSc programme at Princeton University
2024	Intern	Huynh Xuan Loc	PhD programme at Boston University

POLICY ENGAGEMENT

2024	Developed a dashboard featuring time-varying reproduction numbers with staff at the Ho Chi Minh City Center for Disease Control to enhance infectious disease monitoring and response
2024	Submitted a rapid report on measles seroprevalence to the Department of Health in response to a measles outbreak in Ho Chi Minh City
2024-2025	Supported the evaluation of Ho Chi Minh City's infectious disease surveillance system
2024-2025	Co-supervised the review, benchmarking, and selection of suitable algorithms for early outbreak detection in Ho Chi Minh City

TEACHING

Modelling

Date	Attendees	
2024-2025	15	*Infectious disease modelling for babies* Methodologies for mathematical models of infectious diseases. Venue: Ho Chi Minh City Center for Disease Control. https://drthinhong.com/idm4b
2023	60	*Introduction to mathematical models for controlling infectious diseases* Developing basic compartmental models and the use of reproduction numbers. Venue: Ho Chi Minh City Center for Disease Control. https://lampk.github.io/IDMIntro

Others

Date	Attendees	
2025	20	*Academic writing for babies* Academic writing skills for early-career researchers. Venue: Ho Chi Minh City Center for Disease Control.
2024-2025	10	*R café* Fortnightly reproducibility in research classes. Venue: OUCRU, Ho Chi Minh City Center for Disease Control. https://oucru-modelling.github.io/R-cafe-materials
2024	40	*R for babies* Monthly practical R programming classes. Venue: Ho Chi Minh City Center for Disease Control. https://drthinhong.com/r4babies

Seminars

Date	Attendees	
2024	40	*Is this a good journal?* Training on identifying trustworthy scientific journals. Venue: Ho Chi Minh City Center for Disease Control.

SOFTWARE

1. **Ong T**, Phan TQA, Ha ML, Choisy M (2025). *denim: Construct and simulate deterministic discrete-time compartmental models with customisable dwell time distributions.* https://thinhong.github.io/denim.

2. Phan TQA, Pham NTN, Bui TL, Huynh NT, Choisy M, **Ong T** (2025). *serosv: Analyse serological data and estimate infectious diseases parameters.* https://oucru-modelling.github.io/serosv.
3. Luu PL, **Ong T**, Loc TTH, Lam D, Pidsley R, Stirzaker C, Clark SJ (2021). *MethPanel: Analyse multiplex bisulphite PCR sequencing to assess DNA methylation biomarker panels for disease detection.* https://github.com/thinhong/MethPanel.
4. Khuong QL, **Ong T**, Hoang VM (2020). *hss: Estimate sample size for health study designs.* https://thinhong.shinyapps.io/samplesize.
5. Luu PL, **Ong T**, Dinh TP, Clark SJ (2020). *Lifted: Enhance genome conversion robustness during reference assembly updates.* https://github.com/thinhong/Lifted.

PUBLICATIONS

1. Pham NML, **Ong T**, Vuong NL, Nguyen TTH. HLA Compatibility and Graft Survival Rates Among Related and Unrelated Donors in Renal Transplantation. Transplantation Proceedings. 2024;56(10):2163-2171. doi:10.1016/j.transproceed.2024.11.010
2. Tran DM, **Ong T**, Cao TV, Pham QT, Do H, Phan PH, Choisy M, Pham NTH. Hospital-acquired infections and unvaccinated children due to chronic diseases: an investigation of the 2017–2019 measles outbreak in the northern region of Vietnam. BMC Infect Dis. 2024;24(1):948. doi:10.1186/s12879-024-09816-w
3. Le TMC, Duong KT, Nguyen QA, **Ong T**, Nguyen THN, Thai TCT, Le QT, Roque M, Alviggi C. Effectiveness of progesterone supplementation in women presenting low progesterone levels on the day of frozen embryo transfer: a randomised controlled trial. BMJ Open. 2022;12(2):e057353. doi:10.1136/bmjopen-2021-057353
4. Le Pham NM, **Ong T**, Vuong NL, Van Tran B, Nguyen TTH. HLA types and their association with end-stage renal disease in Vietnamese patients: A cross-sectional study. Medicine. 2022;101(48):e31856. doi:10.1097/MD.0000000000031856
5. Le TMC, **Ong T**, Nguyen QA, Roque M. Fresh versus elective frozen embryo transfer: Cumulative live birth rates of 7,236 IVF cycles. JBRA Assist Reprod. 2022;26(3):450-459. doi:10.5935/1518-0557.20210094
6. Le TTV, Vuong TTB, **Ong T**, Do MD. Allele frequency and the associations of HLA-DRB1 and HLA-DQB1 polymorphisms with pemphigus subtypes and disease severity. Medicine. 2022;101(7):e28855. doi:10.1097/MD.0000000000028855
7. Vuong TBT, Do DM, **Ong T**, Thanh Le TV. HLA-DRB1 and DQB1 genetic susceptibility to pemphigus vulgaris and pemphigus foliaceus in Vietnamese patients. Dermatol Reports. 2021;14(2):9286. doi:10.4081/dr.2021.9286
8. Long KQ, Ngoc-Anh HT, Phuong NH, Tuyet-Hanh TT, Park K, Takeuchi M, Lam NT, Nga PTQ, Phuong-Anh L, Tuan LV, Bao TQ, **Ong T**, Huy NV, Lan VTH, Minh HV. Clustering Lifestyle Risk Behaviors among Vietnamese Adolescents and Roles of School: A Bayesian Multilevel Analysis of Global School-Based Student Health Survey 2019. The Lancet Regional Health – Western Pacific. 2021;15: 100225. doi:10.1016/j.lanwpc.2021.100225
9. Luu PL, **Ong T**, Loc TTH, Lam D, Pidsley R, Stirzaker C, Clark SJ. MethPanel: a parallel pipeline and interactive analysis tool for multiplex bisulphite PCR sequencing to assess DNA methylation biomarker panels for disease detection. Bioinformatics. 2021;37(15):2198-2200. doi:10.1093/bioinformatics/btaa1060
10. Huynh G, Tran TT, Do THT, Truong TTD, **Ong T**, Nguyen TNH, Pham LA. Diabetes-Related Distress Among People with Type 2 Diabetes in Ho Chi Minh City, Vietnam: Prevalence and Associated Factors. Diabetes, Metabolic Syndrome and Obesity. 2021;14: 683-690. doi:10.2147/DMSO.S297315
11. Long KQ, **Ong T**, Thao TTK, Van Huy N, Lan VTH, Mai VQ, Van Minh H. Relationship between family functioning and health-related quality of life among methadone maintenance patients: a Bayesian approach. Qual Life Res. 2020;29(12):3333-3342. doi:10.1007/s11136-020-02598-z
12. Luu PL, **Ong T**, Dinh TP, Clark SJ. Benchmark study comparing liftover tools for genome conversion of epigenome sequencing data. NAR Genomics and Bioinformatics. 2020;2(3):lqaa054. doi:10.1093/nargab/lqaa054
13. Vu-Ngoc H, Uyen NCM, **Ong T**, Don LD, Danh NVT, Truc NTT, Vi VT, Vuong NL, Huy NT, Duong PDT. Analgesic effect of non-nutritive sucking in term neonates: A randomized controlled trial.

Pediatrics & Neonatology. 2020;61(1):106-113. doi:10.1016/j.pedneo.2019.07.003

14. Dao Phuoc T, Khuong Quynh L, Vien Dang Khanh L, **Ong T**, Le Sy H, Le Ngoc T, Phung Khanh L. Clinical prognostic models for severe dengue: a systematic review protocol. Wellcome Open Res. 2019;4: 12. doi:10.12688/wellcomeopenres.15033.2

15. **Ong T**, Anh HNV, Tung DT, Kien TG. Translation and cross-cultural adaptation of the Vietnamese version of the diabetes distress scale. MedPharmRes. 2018;2(3):5-11. doi:10.32895/UMP.MPR.2.3.5