

VUONG HUNG TRUONG

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EDUCATION

Graduate Institute of Mind, Brain and Consciousness *September 2017 - July 2019*
Taipei Medical University, Taiwan
Master program in Cognitive Neuroscience - M.A.
Average score: 92.56/100; equivalent to 4.00/4.00 in the U.S.s grading system.

School of Medicine *September 2010 - October 2016*
Vietnam National University Ho Chi Minh City, Vietnam
Doctor of Medicine - M.D.
Average score: 8.09/10; equivalent to 3.50/4.00 in the U.S.s grading system.

RESEARCH INTERESTS

I am currently a research assistant at the Graduate Institute of Mind, Brain and Consciousness, Taipei Medical University. My research interests focus primarily around what can best be described as medical computer science. I am passionate about applying computational approaches to the study of medical and psychological processes, such as human perception measured both behaviourally and through the use of neuro-imaging techniques including EEG and fMRI. Computationally modelling these processes may allow for further understanding of the underlying neural-mechanisms, which cannot be achieved with empirical data alone.

Growing up and studying in a developing country, has given me a great appreciation for open source programming (C++, Python) and the creative use do-it-yourself experimental devices (movement sensors, IR cameras for eye tracking, etc.) in order to minimise the boundary between the haves and the have nots.

RESEARCH EXPERIENCE

Graduate Institute of Mind, Brain and Consciousness - Taipei Medical University
Supervisor: Niall William Duncan, Assistant professor, Ph.D *September 2017 - Present*
Main activities and responsibilities:

- Leading a project original research Acute tryptophan depletion and emotional visual mismatch negativity from study design, data preparation to data analysis, and writing manuscript.
- Leading a side project original research Head movement and negative childhood experience: A mock fMRI scanner study.
- Learning how to deal with human subjects, collecting, organizing and distributing data.
- Learning neuroimaging techniques: fMRI, EEG (wet and dry electrodes).
- Learning basic data analysis and designing experiment using Python, Matlab, MNE, SPM, FSL, Freesurfer, AFNI, PsychoPy and R.

Graduate Institute of Mind, Brain and Consciousness - Taipei Medical University
Supervisor: Philip Tseng, Associate professor, Ph.D *July 2019 - Present*
Main activities and responsibilities:

- Co-leading a project related to top-down abnormalities in Schizophrenia.
- Learning how to program a task with Psychtoolbox.

- Learning EEG analysis using Fieltrip toolbox.
- Learning Brain stimulation technique (tDCS).
- Work with research assistants in Wanfang hospital to collect and analyse behavioral data in Schizophrenia patients.

Graduate Institute of Mind, Brain and Consciousness - Taipei Medical University

Supervisor: Jihwan Myung, Associate Professor, Ph.D *September 2018 - June 2019*

Main activities and responsibilities:

- Working with electronic devices and developing a software to measure locomotor activity for mice experiment.
- Learning wet lab techniques: genotyping, PCR, brain slicing, brain culture, histopathology classification.
- Learning about Mathematics and Computational Modelling: applications of differential equations, using Hierarchical Guassian Filter to track trajectories of belief about external state from a given input.

School of Medicine, Vietnam National University Ho Chi Minh City, Vietnam

Supervisor: Cam Huyen Nguyen Xuan, Professor, Ph.D *October 2015 - July 2016*

Main activities and responsibilities:

- Leading the Bachelors graduation thesis Guillain Barr Syndrome: New classification according to Brighton Criteria and GBS Classification Group - a retrospective longitudinal study - from writing proposal, collecting data, data analysis and being the presenter of the thesis.
- Learning basic data analysis using Stata.

PUBLICATIONS

- Myung, J., Wu, M. Y., Lee, C. Y., Rahim, A. R., Truong, V. H., Wu, D., Wu, M. S. (2019). The Kidney Clock Contributes to Timekeeping by the Master Circadian Clock. International journal of molecular sciences, 20(11), 2765. doi:10.3390/ijms20112765
- Serotonergic modulation of visual emotion mismatch negativity: a roving standard paradigm study (In preparation).
- Head movement and negative childhood experience: A mock fMRI scanner study (In preparation).

HONORS AND AWARDS

- **Participation in the 2019 TMU-MIT Healthcare Datathon**, from 27 to 29 September, 2019, Taipei Medical University x Massachusetts Institute of Technology.
- **Award for outstanding performance and securing the Third position at TMU-MIT (Sana) Hackathon on Health IoT**, from 19 to 21 October 2018, Taipei Medical University x Massachusetts Institute of Technology.
- **Taipei Medical University International Student Scholarship Type B for Master program**, 2017-2019.
- **Award for excellent achievement**, for class 2010-2016, Vietnam National University - School of Medicine.
- **Award for the 1 st prize in Raising the spirit**, 2014, HCMC University of Medicine and Pharmacologys English Eloquent Competition.

- **Award for the 3 rd prize of Mendels Nursery Garden**, 2013, Vietnam National University - Ho Chi Minh City University of Sciences competition in Biology.
- **Top 40 in 70 teams from the Written Quiz proceed to the Oral Quiz competition in the 10 th Inter-medical School Physiology Quiz (Prof A. Raman Challenge Trophy)**, 2012, University of Malaya, Malaysia.
- **Award for the 4 th prize of Mendels Nursery Garden**, 2012, Vietnam National University - Ho Chi Minh City University of Sciences competition in Biology.
- **Award for the highest score in the 1 st Academic year**, 2011, School of Medicine -Vietnam National University.

LEADERSHIP EXPERIENCE

Graduate Institute of Mind, Brain and Consciousness

Mentor

September 2018 - present

- Mentoring a graduate student in a research project using eye blink detector, head movement measurement, EKG, breathing measurement.

Clinical rotation group at hospitals in Ho Chi Minh City

Leader

September 2014 - September 2016

- Managing and arranging schedule for the group.
- Contacting medical doctors and lecturers from Thong Nhat, Binh Dan, Pham Ngoc Thach Hospitals to arrange the schedule for the class.
- Holding meetings to share knowledge and experience among members (Clinical case discussion).

School of Medicine, Vietnam National University

Co-founder of The School of Medicine English Club

September 2011 - September 2012

- Organizing an event to welcome the freshmen.
- Organizing English competitions with invited English teachers.

EXTRA-CIRRICULAR

- **Phystoon Drawing Contest in Physiology**, 2012 Malaysia.
- **University entrance examination support campaign**, 2011, Ho Chi Minh City Youth Union, Vietnam.
- **Global me Eloquent Contest about How to make the Earth greener**, 2010, International University, Vietnam National University, Vietnam.

LANGUAGES

Vietnamese: native.

English: fluent. IELTS: 7 (Reading 8.0, Listening 8.0, Speaking 6.0, Writing 6.5). GRE: Quantitative 161, Verbal 147, Writing 3.0.

Chinese: basic communication .