

Herrick H.Y. FUNG

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EDUCATION

- **MS/PhD Student in Cognition and Brain Sciences** *Georgia Institute of Technology, US*
Advisor: Dr. Dobromir Rahnev *2023 - Present*
- **MPhil in Cognitive Psychology/Neuroscience** *The University of Hong Kong, HK*
Thesis: From Parts, Whole, to Recognition in Face and Ensemble Processing. *2021-2023*
Advisor: Dr. Janet Hsiao & Prof. William Hayward
- **BSSc(Hons) in Psychology** *Hong Kong Shue Yan University, HK*
CGPA: 3.86/4; Ranked 1st/74 graduates *2018-2021*
Thesis: The Role of Spatial Attention in Orientation Ensemble Perception.
Advisor: Dr. Alex Li

AWARDS & SCHOLARSHIPS

- **Postgraduate Scholarship (2021-2023)**; Cover full costs of graduate studies in The University of Hong Kong
- **Academic Programme Achievement Award (2021)**; Hong Kong Shue Yan University
- **Outstanding Performance Scholarship (2021)**; Self-Financing Post-Secondary Scholarship Scheme, HKSAR
- **President's List (2019 & 2020)**; Hong Kong Shue Yan University

RESEARCH EXPERIENCES

- **Graduate Student** *The University of Hong Kong*
PI: Dr. Janet Hsiao & Prof. William Hayward *2021-2023*
 - Initiated and worked on two research projects, including:
 - Illusory Conjunction in Faces.
 - Modelling Perceptual Average with Eye-Tracking Data.
- **Part-time Student Helper - Research** *Hong Kong Shue Yan University*
PI: Dr. Alex Li *2019-2021*
 - Assisted in two research projects, including:
 - Coding a pilot behavioral experiment & Collecting data for a tDCS experiment in Time Perception, see <https://doi.org/10.1016/j.neuroimage.2022.119368>, for more.
 - Created a script for web data scraping to investigate changes in gaming population and players' during pandemic.
- **Research Internship (Coursework)** *Hong Kong Shue Yan University*
PI: Dr. Alex Li *2019-2020*
 - Initiated two research projects, performed data collections and analyses, including:
 - Examining the benefits of visual crowding in orientation ensemble perception through psychophysical experiments, modified and replicated an experiment. The project was deprecated due to the COVID-19 pandemic outbreak.
 - I then have to switch the project to investigating the relationship between subjective health and wellbeing with the Gallup Database.
- **Student Helper → Part-Time Research Assistant II** *The Education University of Hong Kong*
PI: Dr. Eva Chung *2019-2020*
 - Assisted in data collection, behavioral coding, & provide social skills training to children with ASD.
- **Part-Time Executive Assistant** *Tung Wah College*
PI: Dr. Mabel Yau *2017-2019*
 - Lead a group of 10 volunteers to implement an original clinical study on the effect of Multisensory stimulations and activities on depression and psychological wellbeing in elderlies with mild cognitive impairment. Duties included intervention protocol design, clinical assessments implementations, & data analysis.

PUBLICATIONS, CONFERENCES, & PRESENTATIONS

Working Papers

1. **H. Fung**, J.Hsiao, & W.G. Hayward. (in prep) Modelling Perceptual Average with Eye-Tracking Data.
2. **H. Fung**, J.Hsiao, & W.G. Hayward. (in prep) Illusory Conjunction in Faces.

Submitted Conference Presentation

1. **H. Fung**, J. Hsiao, & W.G. Hayward. (May, 2023) Illusory Conjunction in Faces. VSS2023. (Accepted for Poster Presentation)
2. **H. Fung**, J. Hsiao, & W.G. Hayward. (September, 2022) From Parts, Whole, to Recognition: The Attentional Mechanism of Holistic Face Processing. 8th Departmental Research Postgraduate Symposium, 2022. (Accepted for Oral Presentation)
3. M.Y.C. Yau, **H.H.Y. Fung**, Z.O.Y. Cheng, R. Kaur, N.N. Chan, P.L. Tang, & M.C.C. Kuo. (September, 2018) The Effect of Multisensory Stimulations on Depressive Symptoms and Psychological well-being of Mildly Cognitive Impaired Institutionalized Elderlies – A Pilot Study. International Alzheimer’s Disease Conference 2018. (Accepted for Poster Presentation)

Presentation

1. May 20, 2022 – The Cognitive Mechanism of Ensemble Perception; presented in the Brown Bag Lunchtime Seminar in The University of Hong Kong

TECHNICAL SKILLS

- **Programming/Scripting/Web:** Python, R, MATLAB, HTML/CSS/JS, \LaTeX
- **Statistics:** Python, R, SPSS, JAMOVI, Proficient in performing: Power analysis, t-tests, ANOVAs, regression analysis, mediation & moderation, factor analysis, structural equation modelling, bayesian analysis, psychometric curve fitting, & bootstrapping
- **Neuroimaging/Neurostimulation:** Designing and conducting EEG-ERP and tDCS experiments, performing EEG signal preprocessing and univariate analysis, familiar to electrode placement system; TMS certification in consenting participants, setting up equipment and obtaining motor threshold
- **General Lab Skills:** Designing and coding Behavioral Experiments (Mostly in Python with PsychoPy; Also able to code with jspsych with cognition.run, & E-prime), Literature searches and review, data collection, analysis, and visualization
- **Human Subjects Data Collection:** Obtaining informed consent, medical record review, recruitment & scheduling of participants, taking psychophysiological signals, specimen collection
- **General IT:** Microsoft Windows, MacOS, UNIX, Microsoft Office Suite, Zotero, Vim, photo editing with GIMP, video editing with Davinci Resolve, and audio editing with Audacity & Cakewalk
- **Language & Communication:** Native proficiency in Chinese Cantonese, Bilingual proficiency in English, Professional working proficiency in Chinese Mandarin, Strong communication skills, especially with people of different ages and people with medical and psychiatric conditions (i.e., ASD, ADHD, Cognitive Impairment, Depression, etc.)

TEACHING

- **Tutor of PSYC3068 – Advanced Cognitive Psychology (Spring 2022);** The University of Hong Kong
 - Responsible for preparing tutorial’s materials, tutoring, and grading assignments for a class of 24 senior year students. Initiated two practical workshops on PsychoPy experiment building and behavioral data analysis
 - Highlighted Feedbacks from students: *Very engaging, honest, concise, & has taught practical contents; Tutorials were interesting and stimulating with various topics and discussions; When discussing research papers, he displays clear and organized notes on the screen which helps slow learners like myself understand the research better; He is really supportive and responsive.*
- **Tutor of PSYC2007 – Cognitive Psychology (Fall 2021);** The University of Hong Kong
 - Responsible for preparing tutorial’s materials, tutoring, and grading assignments for a class of 45 junior year students.
 - Highlighted Feedbacks from students: *Fun classes; He always teaches in an entertaining way with lots of demonstrations; Willing to help and have a good organization in class*
- **Certificate in Teaching & Learning in Higher Education;** Centre for the Enhancement of Teaching and Learning, The University of Hong Kong

UNIVERSITY SERVICES

- **Student Representative (2018-2021);** Department of Counselling & Psychology, Hong Kong Shue Yan University.
 - Gathered and summarised classmates’ opinions about their learning experience and presented it in the departmental meeting.

REFEREES

- **Prof. William HAYWARD:** willhayward@ln.edu.hk
 - Dean, Faculty of Social Sciences, Lingnan University
 - Chair Professor, Department of Psychology, Lingnan University
 - *MPhil Thesis Advisor from September 2021 - July 2022; Transit to Co-Advisor due to his departure from HKU; Course Coordinator of PSYC7021 - Postgraduate Seminar in Cognitive Psychology at HKU*
- **Dr. Janet HSIAO:** jhsiao@hku.hk
 - Head of Department & Associate Professor, Department of Psychology, The University of Hong Kong
 - *MPhil Thesis Advisor starting from August 2022*
- **Dr. Alex LI:** woli@hksyu.edu.hk
 - Associate Academic Vice President (University Research), Hong Kong Shue Yan University
 - Associate Professor, Department of Counselling & Psychology, Hong Kong Shue Yan University
 - *Undergraduate Thesis Advisor & Academic Advisor*
- **Dr. Nicolson SIU:** nicsiu@ust.hk
 - Lecturer, Division of Social Science, The Hong Kong University of Science and Technology.
 - *Course Coordinator of 4 Undergraduate Courses in HKSJU, including Biological Bases of Behavior; Health Psychology; Human Neuropsychology; & Specific Issues in Neuroscience*