

Hoki Fung

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CURRENT POSITIONS

Teaching Assistant <i>Department of Psychiatry & Biobehavioral Sciences</i> <i>University of California, Los Angeles, USA</i>	Jan 2025 - present <i>Part time</i>
Graduate Student Researcher <i>Bearden Lab, Department of Psychiatry & Biobehavioral Sciences</i> <i>University of California, Los Angeles, USA</i>	Jan 2024 - present <i>Full time</i>
PhD Candidate <i>Neuroscience Interdepartmental Program (NSIDP)</i> <i>UCLA David Geffen School of Medicine, USA</i>	Sep 2022 - present <i>Full time</i>
Graduate Research Intern - Psychiatry and Neuroscience <i>Massachusetts General Hospital and Harvard Medical School, USA</i>	Jun 2021 - present <i>Visiting</i>

EDUCATION

Doctor of Philosophy in Neuroscience	University of California, Los Angeles	Expected 2026
Master of Computing in Artificial Intelligence	National University of Singapore	2020 - 2022
Master of Research in Cognitive Neuroscience	University College London	2015 - 2016
Bachelor of Arts in Psychology <i>Departmental Honors & Minor in Education</i>	University of California, Berkeley	2013 - 2015

ADDITIONAL TRAINING

MRtrix3 Diffusion MRI Workshop	Chang Gung University	Jul 2024
R25 Neuroimaging and Genetics Bootcamp	University of Utah	Apr 2024
Neuroimaging & Data Science Summer Course	Neurohackademy	Summer 2020
Computational Neuroscience Summer Course	Neuromatch Academy	Summer 2020
Human Brain Mapping Education Courses	Organization for HBM	Summer 2020
Professional Certificate in Data Science	Harvard University (HarvardX)	2018 - 2020

WORK AND RESEARCH EXPERIENCES

Neuroscience Newsletter Editor and Webguru <i>Society for Neuroscience Singapore Chapter, Singapore</i>	Advisor: A/Prof. Ajay Mathuru	Apr 2021 - May 2022 <i>Academic Service</i>
Cognitive Scientist <i>Neuroglee Therapeutics, Singapore</i>	Advisor: Dr. Michael D. Patterson	Jun 2021 - Apr 2022 <i>Full time</i>

Research Associate - Cognitive Neuroscience <i>Sleep and Cognition Laboratory - CBL</i> <i>YLL School of Medicine, National University of Singapore</i>	Advisors: Prof. Michael Chee, Asst. Prof. Ju Lynn Ong	Jan 2020 - May 2021 <i>Full time</i>
Data Scientist - Clinical MR Data <i>MR Team, Clinical Imaging Research Centre - CIRC</i> <i>YLL School of Medicine, National University of Singapore</i>	Advisors: A/Prof. Thomas Yeo, Dr. Mary Stephenson	Jan 2019 - Jan 2020 <i>Full time</i>
Research Associate - Neuropsychology <i>Clinical Brain Lab - CBL</i> <i>Nanyang Technological University, Singapore</i>	Advisors: Prof. Annabel Chen, Dr. Shu-Hui Lee	Dec 2016 - Dec 2018 <i>Full time</i>
Student Research Assistant - Cognitive Neuroscience <i>Metacognition & Executive Functions Group, ICN</i> <i>University College London, UK</i>	Advisor: A/Prof. Sam J. Gilbert	Oct 2015 - Aug 2016 <i>Assistantship</i>
Undergraduate Honors Scholar - Psychology <i>Department of Psychology,</i> <i>University of California, Berkeley, USA</i>	Advisor: Prof. Alison Gopnik	Sep 2014 - May 2015 <i>Independent Study</i>
Research Assistant - Cognitive Psychology <i>Gopnik Cognitive Developmental Lab,</i> <i>University of California, Berkeley, USA</i>	Advisor: Dr. Adrienne O. Wente	Sep 2013 - May 2015 <i>Assistantship</i>

TEACHING EXPERIENCES

Teaching Assistant - PSYCTRY 174 Brain and Behavioral Health: Childhood & Adolescence <i>Department of Psychiatry & Biobehavioral Sciences</i> <i>University of California, Los Angeles, USA</i>	Lecturer: Prof. Christopher S Colwell	2025 Spring
Teaching Assistant - PSYCTRY 176 Brain and Behavioral Health: Adulthood & Aging <i>Department of Psychiatry & Biobehavioral Sciences</i> <i>University of California, Los Angeles, USA</i>	Lecturer: Prof. Sung-Jae Lee	2025 Winter

PEER-REVIEWED PUBLICATIONS

- Fung, H., Potash, R. M., Krystal, A. D., Pizzagalli, D. A., and Sacchet, M. D. (*under review*). Selective KOR antagonist alters functional patch sizes in individualized brain system: Results from the Fast-fail Trial in Mood and Anxiety Spectrum Disorders (FAST-MAS).
- Lin, H.Y., Fung, H., Wang, Y., Ho, R.C.M. and Chen, S.H.A. (2025). A Functional Magnetic Resonance Imaging Investigation of Hot and Cool Executive Functions in Reward and Competition. *Sensors*, 25(3), p.806. doi: 10.3390/s25030806
- Schleifer, C. H., Chang S. E., Amir, C. M., O'Hora, K. P., Fung, H., Kang, J. W. D., ... & Bearden, C. E. (2025). Unique functional neuroimaging signatures of genetic versus clinical high risk for psychosis. *Biological Psychiatry*, 97(2), 178-187. doi: 10.1016/j.biopsych.2024.08.010
- Fung, H., & Hoftman, G. D. (2024). Are You Maximizing Your Multimodal, Longitudinal Dataset? Toward an Integrated Framework for Advancing Psychosis Research. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 9(9), 849-851. doi: 10.1016/j.bpsc.2024.07.007
- Schleifer, C. H., O'Hora, K. P., Fung, H., Xu, J., Robinson, T. A., Wu, A. S., ... & Bearden, C. E. (2024). Effects of gene dosage and development on subcortical nuclei volumes in individuals with 22q11.2 copy number variations. *Neuropsychopharmacology*, 49(6), 1024-1032. doi: 10.1038/s41386-024-01832-3

- Fung, H., Yeo, B.T.T., Chen, C., Lo, J.C., Chee, M.W.L., and Ong, J.L. (2023). Adherence to 24h movement recommendations and health indicators in early adolescence: Cross-sectional and longitudinal associations in the ABCD study. *Journal of Adolescent Health*, 72(3), 460-470. doi: 10.1016/j.jadohealth.2022.10.019
- Gilbert, S. J. & Fung, H. (2018). Decoding intentions of self and others from fMRI. *NeuroImage*, 172, 278-290. doi: 10.1016/j.neuroimage.2017.12.090
- Gopnik, A., O'Grady, S., Lucas, C., Griffiths, T., Wente, A., Bridger, S., Aboody, R., Fung, H., and Dahl, R. (2017). Changes in cognitive flexibility and hypothesis search from childhood to adolescence to adulthood. *Proceedings of the National Academy of Sciences*, 114(30), 7892-7899. doi: 10.1073/pnas.1700811114

INTERNATIONAL CONFERENCE PRESENTATIONS

- Amir C.M., Wang H., Walsh C., Ghahremani D.G., Chang S.E., Fung H., ..., & Bearden C.E. (2025, Jun). *Predicting and Characterizing Substance Use and Psychosis Outcomes in Adolescence Using Neuroimaging, Clinical, and Demographic Factors*. Poster to be presented by Amir C.M. at the CPDD 87th Annual Scientific Meeting, New Orleans, Louisiana, USA.
- O'Hara K.P., Fung H., Schleifer C., Bøen R., Kushan-Wells L., ..., & Bearden C.E. (2025, Jun). *Frontal Sleep Spindles, IQ, and Sleep Dependent Memory Consolidation in 22q11.2 Deletion Carriers*. Poster to be presented by O'Hara K.P. at SLEEP 2025, Seattle, Washington, USA.
- Xu J., O'Hara K.P., Fung H., Schleifer C., Bøen R., ..., & Bearden C.E. (2025, Jun). *Associations between Actigraph-Derived Sleep Measures and Psychosis-Risk Symptoms in 22q11.2 Deletion Syndrome*. Poster to be presented by Xu J. at SLEEP 2025, Seattle, Washington, USA.
- Ehm J., Fung H., O'Hara K.P., Kushan-Wells L., Schleifer C., & Bearden C.E. (2025, Apr). *Sex Differences in Autism Traits and Resting State Functional Connectivity in 22q11.2 CNV Carriers*. Poster to be presented by Ehm J. at the 2025 SOBP Annual Meeting, Toronto, Canada.
- Kang J.W.D., Schleifer C.H., Amir C.M., Fung H., ..., & Bearden C.E. (2025, Apr). *Characterizing white matter alterations in youth at clinical high risk for psychosis*. Poster to be presented by Kang J.W.D. at the 2025 SOBP Annual Meeting, Toronto, Canada.
- Amir C.M., Ghahremani D.G., Chang S.E., Fung H., Cooper Z.D., & Bearden C.E. (2024, Oct). *Prosocial Behavior Moderates the Relationship between Psychotic-Like Experiences and Elevated Substance Use in the Adolescent Brain and Cognitive Development Study*. Poster presented by Amir C.M. at the AACAP 2024 Annual Meeting, Seattle, Washington, USA.
- Sigar P., Fung H., Goodman Z.T., Nomi J.S., Bolt T., Bessette K., Uddin L.Q. (2024, Sep). *BOLD signal variability and brain dynamics associated with anxiety symptoms*. Poster presented by Sigar P. at FLUX 2024, Baltimore, USA.
- Kang J.W.D., Schleifer C.H., Amir C.M., Fung H., ..., & Bearden C.E. (2024, Sep). *Characterizing white matter alterations in youth at clinical high risk for psychosis*. Poster presented by Kang J.W.D. at FLUX 2024, Baltimore, USA.
- Amir C.M., Ghahremani D.G., Chang S.E., Fung H., Cooper Z.D., Carrie E. Bearden (2024, Sep). *Prosocial behavior moderates the relationship between psychotic-like experiences and elevated substance use in the Adolescent Brain and Cognitive Development Study*. Poster presented by Amir C.M. at FLUX 2024, Baltimore, USA.

Fung H.*, Schleifer C., Kushan-Wells L., Bondy E., & Bearden C.E. (2024, Jul). *Reduced Contralateral Cerebello-Cortical Functional Connectivity in 22q11.2 Deletion Syndrome*. Poster to be presented at NEURO2024 (the joint meeting of the 47th Annual Meeting of the Japan Neuroscience Society (JNS), the 67th Annual Meeting of the Japanese Society for Neurochemistry (JSN), and the 46th Annual Meeting of the Japanese Society of Biological Psychiatry (JSBP)), Fukuoka, Japan. * *Travel Award*

Fung H., Schleifer C., O'Hora K.P., Kushan-Wells L., Bondy E., & Bearden C.E. (2024, Jul). *22q11.2 Gene Dosage Effects on Cerebello-Cortical Functional Connectivity*. Poster presented by Bearden C.E. at the 13th Biennial International 22q11.2 Conference, Silver Coast, Portugal.

Fung H., Schleifer C., Kushan-Wells L., Bondy E., & Bearden C.E. (2024, Jun). *Reduced Contralateral Cerebello-Cortical Functional Connectivity in 22q11.2 Deletion Syndrome*. Poster presented at the 30th Annual Meeting of the OHBM, Seoul, Korea.

Lin H.Y., **Fung H.**, Gan S.R., Gupta B., Ho R.C., & Chen S.H.A. (2024, Jun). *White matter tracts associated with sensitivity to reward in ADHD and healthy adults*. Poster presented by Lin H.Y. at the 30th Annual Meeting of the OHBM, Seoul, Korea.

O'Hora K.P., Schleifer C., Xu J., **Fung H.**, Kushan-Wells L., Saletin, J.M., & Bearden C.E. (2024, May). *Sleep and Cognition in Individuals with an Autism-Linked Copy Number Variant*. Poster presented by O'Hora K.P. at the INSAR 2024 Annual Meeting, Melbourne, Australia.

Fung H., Schleifer C., O'Hora K.P., Kushan-Wells L., Bondy E., & Bearden C.E. (2024, May). *22q11.2 Gene Dosage Effects on Cerebello-Cortical Functional Connectivity*. Poster presented at the 2024 SOBP Annual Meeting, Austin, Texas, USA.

Schleifer C., Chang S., Amir C., O'Hora K.P., **Fung H.**, Kushan-Wells L., ..., & Bearden C.E. (2024, May). *Brain signal variability, multi-scale functional connectivity, and imaging-transcriptomic associations in individuals with clinical and genetic risk factors for psychosis*. Poster presented by Schleifer C. at the 2024 SOBP Annual Meeting, Austin, Texas, USA.

Amir C.M., Ghahremani D.G., Chang S.E., **Fung H.**, Cooper Z.D., & Bearden C.E. (2024, Mar). *Altered neurobehavioral reward anticipation predicts psychotic-like experiences in youth exposed to cannabis prenatally*. Poster presented by Amir C.M. at the ABCD Insights & Innovations Meeting, Maryland, USA.

Schleifer C., O'Hora K.P., **Fung H.**, Lin A., Kushan-Wells L., & Bearden C.E. (2023, Dec). *Gene dosage effects on subcortical nuclei volumes and longitudinal development in individuals with 22q11.2 copy number variants*. Poster presented by Schleifer C. at the 62nd Annual Meeting of the ACNP, Tampa, Florida, USA.

Fung H., Miranda B., Schleifer C., O'Hora K.P., & Bearden C.E. (2023, Apr). *22q11.2 Gene Dosage Effects on Regional Cerebellar Volume Phenotypes*. Poster presented at the 2023 SOBP Annual Meeting, San Diego, USA.

Fung H., Ong J.L., Yeo B.T.T., & Chee W.L.M. (2021, June). *Associations of Sleep Duration with Global Cognition and Gray Matter Volume in Children aged 9 to 11*. Poster presented at the Annual Meeting of OHBM, Virtual.

Lin H.Y., **Fung H.**, Gan S.R., Gupta B., Ho R.C., & Chen S.H.A. (2019, Oct). *Cortical thickness in prefrontal cortex associating with sensitivity to reward and punishment in ADHD and healthy adults*. Poster presented by Lin H.Y. at the Annual Meeting of BrainConnects, Taguig City, Philippines.

Fung H., Gan S.R., Gupta, B., Ho R.C., & Chen S.H.A. (2019, June). *An fMRI investigation of hot and cool executive functions in adults with ADHD*. Poster presented at the Annual Meeting of OHBM, Rome, Italy.

Fung H. & Gilbert S. (2018, June). *Decoding intentions of self and others from fMRI activity patterns*. Poster presented at the Annual Meeting of OHBM, Singapore.

Fung H., Gan S.R., Lee S.H., Ho R.C., & Chen S.H.A. (2018, June). *An fMRI investigation of hot and cool executive functions in healthy adults*. Poster presented at the Annual Meeting of OHBM, Singapore.

HONORS AND AWARDS

Travel Award for Foreign Scientists	NEURO2024	2024
Graduate Dean's Scholar Award	UCLA Graduate Division	2022-2024
SLINGSHOT Top Consumer AI Product	EnterpriseSG	2019
Rolls-Royce Data Innovation Challenge	Rolls-Royce Data Labs	2019
Departmental Honors	Department of Psychology, UC Berkeley	2015
Trustee's Prize for General Excellence	Dean College	2013
President's List	Dean College	2011-2013
Harry L. Kreshpane Prize	Dean College	2012

ACADEMIC SERVICE

Fundraiser	Knowing Neurons	2023 - 2024
Social Media Associate	Knowing Neurons	2022 - 2023
Committee Member	Society for Neuroscience, Singapore Chapter	2021-2022
Centre Representative	Society for Neuroscience, Singapore Chapter	2020-2021
Student Organizer	Organization of Human Brain Mapping Annual Meeting	June 2018
Student Organizer	The ICN 20th Anniversary Conference	June 2016

PROFESSIONAL MEMBERSHIPS

Japanese Society of Biological Psychiatry	Since 2024
Society of Biological Psychiatry (SOBP)	Since 2023
Society for Neuroscience (SfN)	Since 2022
Society for Neuroscience, Singapore Chapter	Since 2019
Psi Chi, Berkeley Undergraduate Chapter	Since 2014
Phi Theta Kappa, Upsilon Zeta Chapter	Since 2012

SKILLS

Project Management	Grant application, IRB application, Scientific writing for annual reports, journal articles, and conference posters, Subject recruitment (online and offline)
Implementation	Experimental design (full pipeline including MR scanning protocol), Computerized and MR scanner compatible neuropsychological task programming, Data collection (including scanner operation)
Data Types	Neuropsychological, Behavioral, Survey, sMRI, task-fMRI, rs-fMRI, DWI/DTI
Methods	Conventional statistics (hypothesis testing), Bayesian approach, Machine Learning, Deep Learning. Mass-univariate, multivariate (e.g. ICA, MVPA), functional connectivity, surface-based, and tract-based analyses

Research Stack	Python, R, Matlab, Bash, Git, SQL, PsychoPy, E-prime, Qualtrics, MTurk, SPM, FreeSurfer, FSL, REST, CONN, SPSS, JASP, Scikit-learn, Caret, TensorFlow, PyTorch, Matplotlib, Seaborn, ggplot, Remote Servers, HPC Clusters
Science Communication	Newsletter editing (Mailchimp), Web development (Digital Ocean, Wordpress, HTML, CSS), Writing (Markdown, LaTeX), Video editing, Graphic Design
Languages	Fluent in English, Cantonese, Mandarin