

CURRICULUM VITAE

Darren Ri-Sheng Liang

Education

- 09/2020 – Present **University of Western Ontario, London, Canada**
Masters of Science (M.Sc.), Candidate
Cognitive, Developmental and Brain Sciences (CDBS) in Psychology
Proposed thesis: Role of the hippocampus and default-mode network during narrative integration in depression
Supervisor: Stefan Köhler
- 09/2014 – 06/2018 **University of Toronto, Toronto, Canada**
Honours Bachelors of Science (H.B.Sc.), Graduated with Distinction
Specialist Cooperative Program in Psychology
cGPA: 3.24/4.00
Project: The role of oscillatory brain networks in understanding age-related decline in speech perception
Supervisor: Bernhard Ross

Work Experience

- 09/2021 – 12/2021 **University of Western Ontario, London, Canada**
Graduate Teaching Assistant
Course: PSYCHOL 3800F Psychological Statistics Using Computers
- 09/2020 – 04/2021 **University of Western Ontario, London, Canada**
Graduate Teaching Assistant
Course: PSYCHOL 2800E Research Methods in Psychology
- 08/2019 – 06/2020 **Baycrest Health Sciences, Toronto, Canada**
Manager, Laboratory
Supervisor: Linda Mah
- 08/2018 – 08/2019 **Baycrest Health Sciences, Toronto, Canada**
Research Assistant
Supervisor: Linda Mah
- 06/2018 – 08/2018 **Syneos Health, Toronto, Canada**
Volunteer Recruiter I, Early Phase
Industry, CRO in pharmaceutical clinical trials
- 05/2016 – 12/2016 **Baycrest Health Sciences, Toronto, Canada**
Research Assistant, Co-op
Supervisor: Bernhard Ross

Honors & Awards

- 09/2021 – 08/2022 **Western Graduate Research Scholarship**
University of Western Ontario
- 04/2021 **Reva Gerstein Fellowship for Masters Study in Psychology**
Department of Psychology
University of Western Ontario

09/2020 – 08/2021 **Western Graduate Research Scholarship**
University of Western Ontario
06/2019 **Best Geriatric Poster Award**
Harvey Stancer Research Day
Department of Psychiatry, University of Toronto

Publications & Presentations

Publications

Murari, G., **Liang, D.R.S.**, Ali, A., Chan, F., Mulder-Heijstra, M., Verhoeff, N.P.L.G., Herrmann, N., Chen, J.J., & Mah, L. (2020). Prefrontal GABA levels correlate with memory in older adults at high risk for Alzheimer's disease. *Cerebral Cortex Communications*, 1(1), <https://doi.org/10.1093/texcom/tgaa022>.

Submitted Articles

Sharma, N., **Liang, D.R.S.**, Murari, G., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., Chen, J.J., & Mah, L. (2020). Functional connectivity between the posterior default mode network and medial temporal lobe is disrupted in older adults with subjective cognitive decline and correlates with subjective memory ability.

Poster Presentations

- Mah, L., Murari, G., **Liang, D.**, Herrmann, N., Chen, J.J., Verhoeff, N.P.L.G. (2020). *Prefrontal GABA correlates with memory in older adults at risk for Alzheimer's disease (AD)*. Organization for Human Brain Mapping Annual Meeting. Montreal, Canada.
- Mah, L., **Liang, D.**, Chan, F., Ali, A., Mulder-Heijstra, M., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., & Chen, J.J. (2019). *Subjective memory ability correlates with functional connectivity between the hippocampus and posterior default mode network in cognitively normal older adults*. International Psychogeriatric Association International Congress, Santiago de Compostela, Spain.
- Sharma, N., **Liang, D.**, Chan, F., Ali, A., Mulder-Heijstra, M., Vandermorris, S., Herrmann, N., Chen, J.J., & Mah, L. (2019). *Subjective memory ability correlates with functional connectivity between both hippocampus and parahippocampal gyrus with the posterior default mode network in cognitively normal older adults*. Harvey Stancer Research Day, Department of Psychiatry, University of Toronto. Toronto, Canada
- Murari, G., **Liang, D.**, Chan, F., Ali, A., Mulder-Heijstra, M., Chen, J.J., & Mah, L. (2019). *Dorsomedial prefrontal GABA+/Cr levels correlate with memory and personality in older adults at risk for Alzheimer's disease*. Harvey Stancer Research Day, Department of Psychiatry, University of Toronto. Toronto, Canada.
- Bae, S., **Liang, D.**, Mulder-Heijstra, M., Ali, A., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., Chen, J.J., & Mah, L. (2019). *Association between emotion regulation and medial temporal lobe in older adults at risk for developing Alzheimer's disease (AD)*. Harvey Stancer Research Day, Department of Psychiatry, University of Toronto. Toronto, Canada.
- Groe, K., Chan, F., **Liang, D.**, Ali, A., Mulder-Heijstra, M., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., & Mah, L. (2019). *Subjective memory ability in mild cognitive impairment and subjective cognitive decline and association with hippocampal volume*.

Harvey Stancer Research Day, Department of Psychiatry, University of Toronto.
Toronto, Canada.

Mah, L., Mulder-Heijstra, M., Ali, A., Chan, F., **Liang, D.**, Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., & Chen, J.J. (2019). *Relationship between emotion regulation strategy and neuroimaging biomarkers of Alzheimer's disease*. Organization for Human Brain Mapping Annual Meeting. Rome, Italy.

Mah, L., **Liang, D.**, Chan, F., Ali, A., Mulder-Heijstra, M., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., & Chen, J.J. (2019). *Subjective memory ability correlates with functional connectivity between the hippocampus and posterior default mode network in cognitively normal older adults*. Canadian Neuroscience Meeting. Toronto, Canada.

Bae, S., **Liang, D.**, Mulder-Heijstra, M., Ali, A., Chan, F., Vandermorris, S., Verhoeff, N.P.L.G., Herrmann, N., Chen, J.J. & Mah, L. (2019). *Association between emotion regulation and medial temporal lobe in older adults with subjective cognitive decline*. International Congress on Magnetic Resonance Imaging. Seoul, South Korea.

Research Skills & Expertise

- Experience in multimodal neuroimaging including recruitment, data collection and analyses using techniques in MEG, MRI, EEG, and PET in multi-site studies
- Developed functions for experiments and analyses utilizing Python, MATLAB, SPSS, R, Presentation, and Unix programming languages in Linux and Windows-based machines
- Proficient use of PubMed, PsycINFO, Ovid, and other search engines for research of academic articles intended for research proposals, abstracts, presentations, publications
- Committed to Standard Operating Procedures (SOPs), related FDA, Good Clinical Practice (GCP), ICH guidelines, Tri-Council Policy Statement, and research ethics board standards for working with confidential information involving human subjects