

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

- 09/2020 – Present **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

- 09/2020 – 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

- Experience in multimodal neuroimaging including recruitment, acquisition, and analyses using techniques in MEG, MRI, EEG, and PET
- 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, publication
- 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