Leo Huang

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Education

University of Toronto *Toronto, Canada*

Ph.D. Candidate, Psychology *2022 - Present*

- Supervisor: Dr. Elizabeth Page-Gould

University of Toronto *Toronto, Canada*

M.A., Psychology *2020 - 2022*

- Thesis title: The "Unhealthy" Racist
- Supervisor: Dr. Elizabeth Page-Gould

Queen's University *Kingston, Canada*

BSc., Kinesiology *2015 - 2020*

Interests

Social Networks

Network dynamics, Ego-centric Networks, Social Support Network, Social Cliques, Well-being

Human-AI interaction

LLM, Artificial Companion, Emotional Support, Trust in AI, Parasocial Relationship

Honors & Awards

2024	*Schwartz Reisman Institute Research Grant*, Trust in Human-ML Interaction.	*University of Toronto*
2023	*Ontario Graduate Scholarship*, Merit-based scholarship.	*University of Toronto*
2020	*University of Toronto Graduate Entrance Award*, Based on research achievement.	*University of Toronto*
2019	*Robert Wallace Memorial Award*, Based on academic achievement.	*Queen's University*
2017	*Mildred K. Walters*, Based on academic achievement.	*Queen's University*
2016	*Heard/McFarlane Award*, As a second-year student with excellent academic standing.	*Queen's University*
2015	*Clark Family Entrance Award*, As an incoming student with excellent academic standing.	*Queen's University*
2015	*Queen's Excellence Scholarship*, As an incoming student with 90%+ average.	*Queen's University*

Work Experience

Research Assistant *Toronto, Canada*

McIntosh Lab - Rotman Research Institution *Aug 2020 - Dec 2021*

- Preprocessed two multimodal neuroimaging datasets with over 1000 participants for modeling.
- Enhanced the UK Biobank data processing pipeline by adding a Quality Control Report feature, decreased per subject review time from 30 min to 5 min.

Researcher Assistant *Baltimore, Maryland*

Stroke Lab - Johns Hopkins Medical SchoolResearcher Assistant *Mar 2018 - Sept 2018*

- Organized and managed animal colonies of three different species, totaling over 1000 specimens.
- Produced animal models with specific tissue damage for experiments and co-authored seven research papers in the fields of neurobiology, physiology, and psychology.

Sports Instructor *Kingston, Ontario*

Queen's University *Apr 2016 - Sept 2016*

- Organized sports events with over 300 attendees for elementary and middle school classes in Kingston.
- Taught classes of 30 students, totaling over 200, a variety of conventional and alternative sports such as squash, lacrosse, fencing, and wheelchair basketball.

Teaching Experiences

2024	*PSY320 Psychological Attitudes*, Teaching Assistance, Instructor: Dr. William Cunningham	*University of Toronto*
2024	*PSY220 Introductory Social Psychology*, Teaching Assistance, Instructor: Dr. Malvina N. Skorska	*University of Toronto*
2023	*PSY428 Critical Psychology*, Teaching Assistance, Instructor: Dr. Mateja Perovic	*University of Toronto*
2023	*PSY100 Introductory Statistics*, Teaching Assistance, Instructor: Dr. Julie Sato	*University of Toronto*
2023	*PSY100 Introductory Psychology*, Teaching Assistance, Instructor: Dr. Paul Bloom	*University of Toronto*
2022	*PSY203 Psychological Research*, Teaching Assistance, Instructor: Dr. Jay Pratt	*University of Toronto*
2022	*PSY100 Introductory Psychology*, Teaching Assistance, Instructor: Dr. Ashley Waggoner Denton	*University of Toronto*
2021	*PSYA02 Clinical, Developmental, Personality and Social Psychology*, Teaching Assistance, Instructor: Dr. Kyle Danielson	*University of Toronto*
2021	*PSYC10 Judgment and Decision Making*, Teaching Assistance, Instructor: Nina Wang	*University of Toronto*
2021	*PSY230 Personality and Its Transformations*, Teaching Assistance, Instructor: Dr. Amanda Sharples	*University of Toronto*
2021	*PSY270 Cognitive Psychology*, Teaching Assistance, Instructor: Dr. Katherine Duncan	*University of Toronto*
2020	*PSY220 Social Psychology*, Teaching Assistance, Instructor: Dr. Jason E. Plaks	*University of Toronto*
2020	*PSY333 Health Psychology*, Teaching Assistance, Instructor: Dr. Taryn E. Grieder	*University of Toronto*

Skills

Programming Languages
Python, MATLAB, Linux, SQL, R

Research
Literature Review, Qualitative and Quantitative Research Design & Implementation

ML/AI
NLP, Supervise & Unsupervised Classification and Regression, CNN, RNN, Model Optimization, TensorFlow/Keras/PyTorch, Large Language Model Integration

Data Science
Tableau, Excel, Google Sheets, Data scrapping, Feature Engineering, PCA, MLM, SEM, PLS, Time Series Forecasting, Graph Theory, Network Analysis, Data Visualization (Tableau, seaborn, matplotlib, ggplot2)

Wet Lab
Animal handling, tissue processing, cryostat sectioning, immuno & florescent staining, and behavior tests.

Molecular Biology
DNA purification, PCT, Northern/Western blotting, cell analysis, etc.

Languages

English
Native proficiency

Mandarin
Native proficiency

Publications

Zhang, Z., Xu, W., Sheng, H., Huang, L., Zhang, J., Zhang, L., Wang, L., Wang, J., Ren, X., Jiang, C., Wang, J. (2023). Hematoma clearance by reactive microglia after intracerebral hemorrhage. Gene Protein in Disease, 2(2), 336. https://doi.org/10.36922/gpd.336

Zhu, L., Huang, L., Le, A., Wang, T. J., Zhang, J., Chen, X., Wang, J., Wang, J., & Jiang, C. (2022). Interactions between the autonomic nervous system and the immune system after stroke. Comprehensive Physiology, 3665–3704. https://doi.org/10.1002/cphy.c210047

Zhang, R., Sun, C., Han, Y., Huang, L., Sheng, H., Wang, J., Zhang, Y., Lai, J., Yuan, J., Chen, X., Jiang, C., Wu, F., Wang, J., Fan, X., & Wang, J. (2022). Neutrophil autophagy and NETosis in covid-19: Perspectives. Autophagy, 1–10. https://doi.org/10.1080/15548627.2022.2099206

Li, C., Zhu, L., Dai, Y., Zhang, Z., Huang, L., Wang, T. J., Fu, P., Li, Y., Wang, J., & Jiang, C. (2022). Diet-induced high serum levels of trimethylamine-N-oxide enhance the cellular inflammatory response without exacerbating acute intracerebral hemorrhage injury in mice. Oxidative Medicine and Cellular Longevity, 2022, 1–16. https://doi.org/10.1155/2022/1599747

Zhang, R., Wang, J., Huang, L., Wang, T. J., Huang, Y., Li, Z., He, J., Sun, C., Wang, J., Chen, X., & Wang, J. (2021). The Pros and cons of motor, memory, and emotion-related behavioral tests in the Mouse Traumatic Brain Injury Model. Neurological Research, 44(1), 65–89. https://doi.org/10.1080/01616412.2021.1956290

Shi, X., Bai, H., Wang, J., Wang, J., Huang, L., He, M., Zheng, X., Duan, Z., Chen, D., Zhang, J., Chen, X., & Wang, J. (2021). Behavioral assessment of sensory, motor, emotion, and cognition in rodent models of intracerebral hemorrhage. Frontiers in Neurology, 12. https://doi.org/10.3389/fneur.2021.667511

Professional Memberships

Canadian Psychological Association

American Psychological Association

Cognitive Neuroscience Society

International Neuroethics Society

Society for Personality and Social Psychology

References

Elizabeth Page-Gould
Professor and Graduate Chair, Canada Research Chair in Social Psychophysiology
Department of Psychology
University of Toronto
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Cendri Hutcherson
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