

EDUCATION

University of Toronto <i>Ph.D.</i> , Cognitive Neuroscience Advisor: Dr. Brian Levine	2024-Present
University of Chicago <i>M.A.</i> , Social Sciences–Psychology Advisor: Drs. Wilma Bainbridge & Monica Rosenberg <i>Thesis</i> : Predictability of memorability neural pattern and attention network in subsequent memory retrieval	2023-2024 GPA: 3.87/4.0
University of Alberta <i>B.Sc.</i> , Psychology with Honors <i>First Class Honors</i> Advisor: Dr. Peter Dixon <i>Thesis</i> : Text-based and memory-based metrics of cognitive coupling	2019-2023 GPA: 3.83/4.0

PUBLICATIONS

Peng, S. , Rosenberg, M.D., & Bainbridge, W. A. (In Prep). Predictability of memorability neural pattern and attention network in subsequent memory retrieval.
Feminella, J., Peng, S. , & St Jacques, P. (In Prep). Dimensionality affects memory for events in immersive virtual reality.
Peng, S. , & Bainbridge, W.A. (2024). Image memorability enhances social media virality. <i>arXiv preprint</i> . https://doi.org/10.48550/arXiv.2409.14659
Peng, S. , & Dixon, P. (In Press). Text-based and memory-based metrics of cognitive coupling. <i>C. J. Exp. Psychol.</i> https://doi.org/10.1037/cep0000349

Invited TALKS

Peng, S. & Bainbridge, W. A. (2024, Oct). Image memorability enhances social media virality. <i>BLRB (Bainbridge, Leong, Rosenberg, Bakkour) Labs Seminar</i> , University of Chicago.

CONFERENCE PRESENTATIONS

Feminella, J., Peng, S. , & St Jacques, P. (2024, April). Dimensionality affects memory for events in immersive virtual reality [Poster]. <i>Cognitive Neuroscience Society</i> , Toronto, ON, CA.
Peng, S. , & Dixon, P. (2022, July). Mind wandering and temporal focus on task switching [Poster]. <i>Canadian Society for Brain, Behavior and Cognitive Science (CSBBCS)</i> , Halifax, NS, CA.
Peng, S. , & Dixon, P. (2022, April). Involvement of mind wandering in the inconsistent contradiction effect during narrative reading [Poster]. <i>Royce Harder Conference</i> , Edmonton, AB, CA.

TEACHING EXPERIENCES

Teaching Assistant	
PSY100H1 – Introductory Psychology	Winter 2025
PSY201H1 – Statistics I	Fall 2024

HONORS & RESEARCH AWARDS

Maroon Research Scholarship [\$30,000]	2023
M.A. Director Scholarship [\$2,000]	2023
Dean’s Silver Medal in Science	2023
Clare Patershuk Travel Award [\$750]	2022

PROFESSIONAL ACTIVITIES

Fundraising Committee for Toronto Area Memory Group (TAMeG)

2024-Present

TECHNICAL SKILLS

Languages:

- Python (PsychoPy & PyTorch), R, MATLAB, Bash, HTML

Software:

- Neuroimaging: FreeSurfer, SPM12, AFNI
- General: Vuze VR Studio, Unity, Qualtrics, TESTABLE, GitHub, Adobe Premiere Pro

Neuroimaging Methods:

- fMRI: Data Preprocessing (SPM12 & AFNI), Univariate Analysis, MVPA, Representational Similarity Analysis, Multi-Dimensional Scaling, Functional Connectivity (FC), Inter-/Intra-Subject FC, Functional Cofluctuations
- EEG/ERP: Data Preprocessing (EEGLAB), ERP Analysis

Analyses:

- Machine Learning: Linear/Polynomial Model, SVM/SVR, Decision Trees, Cross-Validation, Clustering, PCA/ICA, Feature Engineering, Ensemble learning, Natural Language Processing
- Bayesian Analysis: Regression, Casual modeling, MCMC, Multilevel modeling, GLM
- Deep Learning: DCNNs

CERTIFICATES

Computational Neuroscience

2023

Neuromatch Academy

REFERENCES

Brian Levine, Ph.D., C.Psych., ABPP-cn

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