Lok-Kin Yeung, PhD

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Education

University of Toronto, *Toronto, ON*

2011 – 2017 **PhD, Psychology**
Thesis: Cognitive correlates of anterolateral entorhinal cortex volume differences in older adults
Supervisor: Morgan Barense, PhD

2010 – 2011 **MA, Psychology**
Thesis: Investigating the mechanisms of forgetting in aging using eyetracking
Supervisor: Morgan Barense, PhD

Columbia University, *New York, NY*

2009 – 2010 **BA, Neuroscience and Behavior**

2005 – 2009 **BSc, Biomedical Engineering**

Research Experience

Columbia University, *New York, NY*

2017 – 2023 **Postdoctoral Research Scientist, Cognitive Neuroscience Division, Taub Institute**
Supervisor: Adam Brickman, PhD

2016 – 2017 **Staff Associate, Cognitive Neuroscience Division, Taub Institute**
Supervisor: Adam Brickman, PhD

University of Toronto, *Toronto, ON*

2011 – 2017 **Graduate Researcher, Memory and Perception Lab, Department of Psychology**
Supervisor: Morgan Barense, PhD

Columbia University, *New York, NY*

2008 – 2010 **Research Assistant, Cognitive Neuroscience Division, Taub Institute**
Supervisors: Adam Brickman, PhD & Yaakov Stern, PhD

2008 – 2010 **Research Assistant, Social Cognitive Neuroscience Lab, Department of Psychology**
Supervisor: Kevin Ochsner, PhD

Grants & Scholarships

2016 – 2019 **Taub Institute MRI Seed Grant** ($11,750)

2013 – 2015 **NSERC Canada Graduate Scholarship – Doctoral Level** ($35,000/year)
Project: Understanding neural mechanisms underlying mnemonic/perceptual interference in the perirhinal cortex

2012 – 2015 **Ontario Mental Health Foundation Research Studentship** ($16,000/year, declined 2013-2015)

Project: Investigating the mechanisms of forgetting in Alzheimer's disease and amnesia

2012 – 2013	**Ontario Graduate Scholarship – Doctoral Level** ($15,000/year, declined)
2011 – 2012	**Ontario Graduate Scholarship – Doctoral Level** ($15,000/year)
2010 – 2011	**University of Toronto Fellowship** ($10,239/year)
2005 – 2009	**Lawrence Gussman Named Scholarship** ($25,000/year)

Patents

1. Brickman AM, Small SA, **Yeung L-K**. Methods and systems for evaluating age-related memory loss. U.S. Patent Application No. 2015050158, September 15, 2015.

Publications

Peer-Reviewed Articles

1. **Yeung L-K**, Alschuler DM, Wall M, Luttmann-Gibson H, Copeland T, Hale C, Sloan RP, Sesso HD, Manson JE, Brickman AM (2023). Multivitamin Supplementation Improves Memory in Older Adults: A Randomized Clinical Trial. *American Journal of Clinical Nutrition.*
2. Brickman AM, **Yeung L-K**, Alschuler DM, Ottaviani HI, Kuhnle GGC, Sloan RP, Luttmann-Gibson H, Copeland T, Schroeter H, Sesso HD, Manson JE, Wall M, Small SA (2023). Dietary flavanols restore hippocampal-dependent memory in older adults with lower diet quality and habitual flavanol consumption. *Proceedings of the National Academy of Sciences of the United States of America.*
3. Sloan RP, Wall M, **Yeung L-K**, Feng T, Feng X, Provenzano F, Schroeter H, Lauriola V, Brickman AM & Small SA (2021). The role of dietary flavanols in cognitive aging: results of a randomized controlled trial. *Scientific Reports*, 11:3837.
4. **Yeung L-K**, Hale C, Rizvi B, Igwe K, Sloan RP, Honig LS, Small SA & Brickman AM (2021). Anterolateral entorhinal cortex volume is associated with memory retention in clinically unimpaired older adults. *Neurobiology of Aging*, 98:134-145.
5. **Yeung L-K**, Hale C, Last BS, Andrews H, Sloan RP, Honig LS, Small SA & Brickman AM (2019). Cerebrospinal fluid amyloid levels are associated with delayed memory retention in cognitively normal biomarker-negative older adults. *Neurobiology of Aging*, 81:90-97.
6. **Yeung L-K**, Olsen RK, Hong B, Mihajlovic V, D'Angelo MC, Kacojja A, Ryan JD & Barense MD (2019). Object-in-place memory predicted by anterolateral entorhinal cortex and parahippocampal cortex volume in older adults. *Journal of Cognitive Neuroscience,* 31(5):711-729.
7. Stevenson RA, Philipp-Muller A, Hazlett N, Wang ZY, Luk J, Lee J, Black KR, **Yeung L-K**, Shafai F, Segers M, Ferber S & Barense MD (2019). Conjunctive visual processing appears abnormal in autism. *Frontiers in Psychology*: *Perception Science*, 9:2668.
8. Hale C, Last BS, Meier IB, **Yeung L-K**, Budge M, Sloan RP, Small SA & Brickman AM (2017) The ModRey: an episodic memory test for nonclinical and preclinical populations. *Assessment*, 107319111772311.
9. **Yeung L-K**, Olsen RK, Bild-Enkin HEP, D'Angelo MC, Kacollja A, McQuiggan DA, Keshbyan A, Ryan JD & Barense MD (2017). Anterolateral entorhinal cortex volume correlated with altered intra-item configural processing. *Journal of Neuroscience*, 37(22): 5527-5538.
10. Olsen RK†, **Yeung L-K**†, Noly-Gandon A, D'Angelo MC, Kacollja A, Smith VM, Ryan JD & Barense MD (2017). Human anterolateral entorhinal cortex volumes are associated with cognitive decline in aging prior to clinical diagnosis. *Neurobiology of Aging,* 57: 195-205.

11. Brickman AM, Khan UA, Provenzano FA, **Yeung L-K**, Suzuki W, Schroeter H, Wall M, Sloan R & Small SA (2014). Enhancing dentate gyrus function with dietary flavanols improves cognition in older adults. *Nature Neuroscience*, 17(12): 1798-1803.
12. **Yeung L-K**, Ryan JD, Cowell RA, & Barense MD (2013). Recognition memory impairments caused by novel objects falsely recognized as familiar. *Journal of Experimental Psychology: General*, 142(4): 1384-1397.
13. Barense MD, Groen ILA, Lee ACH, **Yeung L-K**, Brady S, Bussey TJ, Kapur N, Gregori M, Saksida LM & Henson RNA (2012). Intact memory for irrelevant information impairs perception in amnesia. *Neuron*, 75*(*1): 157-167.
14. Lee ACH, **Yeung L-K** & Barense MD (2012). The hippocampus and visual perception. *Frontiers in Human Neuroscience*, 6(91).
15. Brickman AM, Sneed JR, Provenzano FA, Garcon E, Johnert L, Muraskin J, **Yeung L-K**, Zimmerman ME & Roose SP (2011). Quantitative approaches for assessment of white matter hyperintensities in elderly populations. *Psychiatry Research: Neuroimaging*, 193(2): 101-106.
16. Brickman AM, Siedlecki KL, Muraskin J, Manly JJ, Luchsinger JA, **Yeung L-K**, Brown TR, DeCarli C & Stern Y (2011). White matter hyperintensities and cognition: Testing the reserve hypothesis. *Neurobiology of Aging*, 32(9): 1588-1598.
17. Roberto CA, Mayer LES, Brickman AM, Barnes A, Muraskin J, **Yeung L-K**, Steffener J, Sy M, Hirsch J, Stern Y & Walsh, T (2011). Brain tissue volume changes following weight gain in adults with anorexia nervosa. *International Journal of Eating Disorders*, 44(5): 406-411.

† equal contribution

Book Chapters

1. **Yeung L-K** & Brickman AM (2018). Structural Neuroimaging of Hippocampal Subfields in Healthy Aging, Alzheimer's Disease, Schizophrenia and Major Depressive Disorder. In Cohen L (Ed.), *Wiley Encyclopedia of Health Psychology*

Selected Conference Presentations

Symposium and Paper Presentations

1. **Yeung L-K** (2023, April). Anterolateral entorhinal cortex volumes associated with plasma p-tau-181 concentrations in cognitively unimpaired older adults. In Tran, T (Chair), *Investigating early medial temporal lobe neurodegeneration and biomarkers in preclinical Alzheimer's disease*. Symposium at the 2023 International Conference on Learning and Memory, Huntington Beach, CA.
2. **Yeung L-K**, Hale C, Last BS, Rizvi B, Andrews H, Sloan RP, Honig LS, Small SA, & Brickman AM (2019, October). Entorhinal cortex subfield volumes are differentially related to CSF AD biomarkers and memory in older adults without dementia. Nanosymposium presentation at the 50th annual meeting of the Society for Neuroscience, Chicago, IL.
3. **Yeung L-K**, Hale C, Vina Albarracin A, Last BS, Andrews H, Honig LS, Small SA & Brickman AM (2019, February). Cerebrospinal fluid levels of amyloid and tau are independently associated with delayed retention memory in non-clinical older adults. Paper presentation at the 47th annual meeting of the International Neuropsychological Society, New York, NY.
4. **Yeung L-K** & Barense MD (2018, April). Assessing anterolateral entorhinal cortex volume differences with eyetracking measures of object-based configural processing. In Gluck, M (Chair), *Subtle learning and memory impairments in early prodromal Alzheimer's disease: behavioral biomarkers for future risk*. Symposium at the 2018 International Conference on Learning and Memory, Huntington Beach, CA.
5. **Yeung L-K**, Hale C, Last BS, Rizvi B, Honig LS, Small SA & Brickman AM (2018, April). Differential relationships of entorhinal cortex subfield volumes with CSF amyloid/tau concentration and ModRey performance. Lightning talk presented at the 2018 International Conference on Learning and Memory, Huntington Beach, CA.

Poster Presentations

1. **Yeung L-K**, Olsen RK, Hong B, Mihajlovic V, D'Angelo MC, Kacollja A, Ryan JD & Barense MD (2017, November). Object-in-place memory predicted by anterolateral entorhinal cortex and parahippocampal cortex volume in older adults. Poster presented at 48th annual meeting of the Society for Neuroscience, Washington, DC.
2. **Yeung L-K**, Olsen RK, Bild-Enkin HEP, D'Angelo MC, Kacollja A, McQuiggan DA, Keshbyan A, Ryan JD & Barense MD (2016, April). Anterolateral entorhinal cortex volume correlated with altered intra-item configural processing. Poster presented at the 23rd annual meeting of the Cognitive Neuroscience Society, New York, NY.
3. **Yeung L-K**, Bild-Enkin HEP, Keshabyan A & Barense MD (2015, March). Forgetting in the healthy brain: false recognition is present but limited in young adults under high visual interference. Poster presented at the 22nd annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
4. **Yeung L-K**, Bild-Enkin HEP & Barense MD (2014, February). False recognition in healthy adults caused by repeated exposure to high feature-level interference. Poster presented at the 43rd annual conference of the Lake Ontario Visionary Establishment, Niagara Falls, ON.
5. **Yeung L-K**, Newsome RN, Rowe G, Cowell RA, Ryan JD & Barense MD (2013, February). False recognition of objects following MTL damage. Poster presented at the 42nd annual conference of the Lake Ontario Visionary Establishment, Niagara Falls, ON.
6. **Yeung L-K**, Ryan JD & Barense MD (2012, April). Recognition memory impairments caused by novel objects falsely recognized as familiar. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society, Chicago, IL.

Teaching

University of Toronto, *Toronto, ON*

Fall 2014	**Teaching Assistant,** Introductory Psychology (PSY 100)
Spring 2014	**Teaching Assistant,** Introductory Psychology (PSY 100)
Fall 2013	**Teaching Assistant,** Introductory Psychology (PSY 100)
Summer 2013	**Teaching Assistant,** Statistics II (PSY 202)
Spring 2013	**Teaching Assistant,** Introduction to Cognitive Psychology (PSY 270)
Fall 2012	**Teaching Assistant,** Introduction to Perception (PSY 280)
Summer 2012	**Teaching Assistant,** Statistics II (PSY 202)
Spring 2012	**Teaching Assistant,** Introductory Psychology (PSY 100)
Spring 2011	**Teaching Assistant,** Introduction to Cognitive Psychology (PSY 270)
Fall 2010	**Teaching Assistant,** Introduction to Perception (PSY 280)

Mentorship

University of Toronto, *Toronto, ON*

Undergraduate Students

2014-2015	Valentina Mihajlovic
2014-2015	Anna Keshbyan
2013-2014	Bryan Hong
2012-2014	Hannah Bild-Enkin

Professional Service

Columbia University, *New York, NY*

2016 – 2017 **Co-ordinator, Cognitive Neuroscience Seminar Series**
2010 – present **Alumni Interviewer**

University of Toronto, *Toronto, ON*

2012 – 2014 **Working Group on Quality of Education**
2011 – 2015 **Union Representative, Psychology Graduate Students Association**
2011 – 2015 **Canadian Union of Public Employees Local 3902** (TA union)

2013 - 2015	Finance Committee
2012 - 2015	Policy Committee (Chair, 2013-2015)
2012 - 2013	Fund Implementation Committee
2011 - 2015	Stewards Council (Chair, 2013-2015)

Reviewing

Ad-Hoc Reviewer for:

1. **Aging, Neuropsychology & Cognition**
2. **Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring**
3. **Alzheimer Disease & Associated Disorders**
4. **Brain and Cognition**
5. **The Clinical Neuropsychologist**
6. **Frontiers in Aging Neuroscience**
7. **Frontiers in Systems Neuroscience**
8. **Hippocampus**
9. **Human Brain Mapping**
10. **Journal of Alzheimer's Disease**
11. **Journal of Gerontology: Psychological Sciences**
12. **Journal of the International Neuropsychological Society**
13. **Neurobiology of Aging**
14. **Neuropsychologia**
15. **WIREs Cognitive Science**

Professional Memberships

2019 - present **International Neuropsychological Society**
2017 - present **Society for Neuroscience**
2012 - present **Cognitive Neuroscience Society**