

Aedan Yue Li

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SUMMARY

RESEARCH INTERESTS:

- Memory & perception, multisensory integration, representational precision, consciousness

TECHNICAL SKILLS

- Languages: MATLAB, Bash, Python, SQL
- Advanced statistics: GLMs, linear mixed models, mixture models, machine learning
- Data analysis: R, JASP, SPSS, Excel
- Software: MATLAB, AFNI, FSL, PsychoPy, E-prime, Qualtrics
- Visual design: Photoshop CS, Illustrator, Blender
- Research methods: Neuroimaging, survey, and cognitive psychology paradigms

STANDARDIZED TESTING:

- GRE – General Test (169V, 162Q, 5AW)

EDUCATION

Ph.D. Psychology

2017 – Present

University of Toronto – Advisor: Morgan D. Barense

M.A. Psychology

2016 – 2017

University of Toronto – Advisor: Morgan D. Barense

Committee Members: Morgan D. Barense, Keisuke Fukuda, Andy C. H. Lee

Hon. B. Sc. Psychology with High Distinction

2012 – 2016

University of Toronto Scarborough (cGPA: 3.84/4.00) – Honours Thesis: Andy C. H. Lee

PUBLICATIONS

1. **Li, A. Y.**, Liang, J. C., Lee, A. C. H., & Barense, M. D. (2019). The Validated Circular Shape Space: Quantifying the visual similarity of shape. *Journal of Experimental Psychology: General*. doi:10.1037/xge0000693

NON-REFEREED PUBLICATIONS

1. **Li, A. Y.**, Fukuda, K., Lee, A. C. H., & Barense, M. D. (*in prep*). Visual interference can help and hinder memory: Capturing memory fidelity using the Validated Circular Shape Space. See *Experiment 2* in <https://www.biorxiv.org/content/10.1101/535922v1>
2. **Li, A. Y.**, Fukuda, K., & Barense, M. D. (*in prep*). High fidelity visual features form complex objects.

AWARDS

- **Best Student Poster** – Lake Ontario Visionary Establishment Conference (2020)
- **\$70000** – Alexander Graham Bell Canada Graduate Scholarships-Doctoral (CGS D) Award (2019 – 2021)
- **\$560** – SGS Conference Grant (2018)
- **Outstanding Talk Award** – Toronto Area Memory Group (TAMeG) Conference (2018)
- *Shortlisted* – NSERC Postgraduate Scholarships-Doctoral (PGS D) Award (2018)
- **Best Student Poster (Runner Up)** – Lake Ontario Visionary Establishment Conference (2018)
- **\$250** – UTGSU Conference Bursary (2017)
- **\$17500** – Canada Graduate Scholarships-Master’s Program (CGS M) Award (2017 – 2018)
- **\$530** – SGS Conference Grant (2017)
- **\$3823/yr.** – University of Toronto Fellowship Award (2016 – present)
- **Finalist** – University of Toronto Scarborough, Undergraduate Research Forum (2016)
- University of Toronto Scarborough Deans List (2013 – 2016)
- ‘Budding Scholar’ – *for exceptional academic performance in Intro. to Psychology* (2013)
- U of T Education Workers Entrance Scholarship CUPE 3902 (2012)

TALKS

1. **Li, A. Y.**, Fidalgo, C. O., Liang, J., Lee, A. C. H., & Barense, M. D.* (October 2018). Dissimilar interference erases, similar interference blurs: The nature of mnemonic interference explored using a novel perceptually uniform shape space. *Memory Disorders Research Society*. Toronto, Canada.
2. **Outstanding Talk Award** – **Li, A. Y.**, Fidalgo, C. O., Liang, J., Lee, A. C. H., & Barense, M. D. (May 2018). Dissimilar interference erases, similar interference blurs: The nature of mnemonic interference explored using a novel perceptually uniform shape space. *Toronto Area Memory Group*. Toronto, Canada.

3. **Li, A. Y.**, Fidalgo, C. O., Lee, A. C. H., & Barense, M. D. (June 2017). The impact of mnemonic interference on memory for visual form. *Canadian Society for Brain, Behaviour, and Cognitive Sciences (CSBBCS)*. Regina, Canada. *Session Chair for Psycholinguistics*. URL: https://www.csbbcs.org/ocs/public/conferences/1/schedConfs/1/program-en_US.pdf

CONFERENCE POSTERS

1. **Best Student Poster** – Silva, V., **Li, A. Y.**, Ladyka-Wojcik, N., & Barense, M. D. (2020). Moving beyond yes and no: Using VR to understand age-related changes in multidimensional experience. *Lake Ontario Visionary Establishment (LOVE)*. URL: https://drive.google.com/file/d/1ACjnj_3iG947tLJbfl3U1nGOJ-CvEu4K/view
2. Qazilbash, H., **Li, A. Y.**, & Barense, M. D. (2020). Learning how we learn: Exploring 2D vs. 3D multisensory object representations. *Lake Ontario Visionary Establishment (LOVE)*. URL: https://drive.google.com/file/d/1ACjnj_3iG947tLJbfl3U1nGOJ-CvEu4K/view
3. Rong, M., Wang, H., **Li, A. Y.**, Stevenson, R., & Barense, M. D. (2020). Training multisensory perceptual binding improves high-fidelity object memory. *Lake Ontario Visionary Establishment (LOVE)*. URL: https://drive.google.com/file/d/1ACjnj_3iG947tLJbfl3U1nGOJ-CvEu4K/view
4. **Li, A. Y.** (November 2019). Quantifying Representation. *The Friends of Patrick Brain Research Scholarship & Acceleration Fund*, University of Toronto.
5. **Li, A. Y.**, Fukuda, K., & Barense, M. D. (2019). High-fidelity visual features form complex objects in memory. *Journal of Vision*, 19, 76b. doi:10.1167/19.10.76b
6. Sone, H., **Li, A. Y.**, & Fukuda, K. (2019). Simultaneous recall procedure reveals integrated object representations in VWM. *Journal of Vision*, 19, 202. doi:10.1167/19.10.202
7. **Li, A. Y.**, Fukuda, K., & Barense, M. D. (2019). High-fidelity visual features form complex objects. *Lake Ontario Visionary Establishment (LOVE)*. URL: <https://drive.google.com/file/d/1e3YQ5hrD528m0-pSMiEjvn2SDbZTna2O/view>
8. Sone, H., **Li, A. Y.**, & Keisuke, F. (Dec 2019). Object-based nature of visual working memory precision. *Lake Ontario Visionary Establishment (LOVE)*. URL: <https://drive.google.com/file/d/1e3YQ5hrD528m0-pSMiEjvn2SDbZTna2O/view>
9. Wang, H., **Li, A. Y.**, Stevenson, R. A., & Barense, M. D. (2019). Memory fidelity for objects and temporal binding windows. *Lake Ontario Visionary Establishment (LOVE)*. URL: <https://drive.google.com/file/d/1e3YQ5hrD528m0-pSMiEjvn2SDbZTna2O/view>
10. **Li, A. Y.**, Fidalgo, C. O., Liang, J., Lee, A. C. H., & Barense, M. D. (Sept 2018). Examining the impact of item-distractor similarity using a validated circular shape space. *Journal of Vision*, 18(10), 817. doi:10.1167/18.10.817

11. Rusnyak, R., **Li, A. Y.**, Tennant, J. M., & Barense, M. D. (Feb 2018). Creation and validation of a perceptually circular sound space. *Lake Ontario Visionary Establishment (LOVE)*. URL: https://drive.google.com/file/d/1213EWu4B7kU2w_830L1lpQ82_92duJ4L/view
12. **Best Student Poster (Runner Up) – Li, A. Y.**, Rong, M., Stevenson, R. A., & Barense, M. D. (Feb 2018). Separate multisensory perceptual binding measures are differentially associated with spatial and temporal visual working memory. *Lake Ontario Visionary Establishment (LOVE)*. URL: https://drive.google.com/file/d/1213EWu4B7kU2w_830L1lpQ82_92duJ4L/view
13. Sone, H., **Li, A. Y.**, & Keisuke, F. (Dec 2017). Object-based nature of visual working memory precision. *University of Toronto Undergraduate Forum*.
14. **Li, A. Y.**, Fidalgo, C. O., Lee, A. C. H., & Barense, M. D. (Sept 2017). The impact of mnemonic interference on memory for visual form. *Journal of Vision*, 17(10), 96. doi:10.1167/17.10.96
15. **Li, A. Y.**, Fidalgo, C. O., Lee, A. C. H., & Barense, M. D. (Feb 2017). The impact of mnemonic interference on memory for visual form. *Lake Ontario Visionary Establishment (LOVE)*. URL: http://qvcl.queensu.ca/love/programs/2017_46_LOVE_Program.pdf
16. Fidalgo, C., **Li, Y.**, Barense, M. D., & Lee, A. C. H. (Feb 2016). How Interference Affects Accuracy and Precision for Object Colour and Shape. *Lake Ontario Visionary Establishment (LOVE)*. URL: http://qvcl.queensu.ca/love/LOVE_Poster_sessions_2016.pdf
17. **Li, Y.**, Crump, L., Sharma, M., Sacco, R., Smith, E., & Saposnik, G. (Feb 2016). Influence of Aversion to Uncertainty in STROKE Care. *Stroke*, 47, TP336. URL: http://stroke.ahajournals.org/content/47/Suppl_1/ATP336.abstract?sid=8d1c12d8-849a-401d-bc17-0239617039d2
18. Crump, L., **Li, Y.**, Sharma, M., Sacco, R., Smith, E., & Saposnik, G. (Feb 2016). Physicians' Preferences in the Management of Silent Stroke: Results from a Worldwide Survey. *Stroke*, 47, TMP37. URL: http://stroke.ahajournals.org/content/47/Suppl_1/ATMP37.abstract?sid=a8c83401-343c-4420-ad96-0f87f76dfc4c

TEACHING & RESEARCH EXPERIENCE

University of Toronto

Sept. 2016 – Present

Teaching Assistant

- PSY202: Statistics II (Jan. 2020 – Present)
- PSY379: Memory Lab (Sept. 2019 – Dec. 2019)
- PSY201: Statistics I (May 2019 – July 2019)
- PSY370: Thinking & Reasoning (Sept. 2018 – Dec. 2018)
- PSY372: Human Memory (July 2018 – Aug. 2018)
- PSY280: Sensation & Perception (Jan. 2018 – April 2018; Jan. 2019 – Apr. 2019)

- PSY270: Intro. to Cognitive Psychology (Jan. 2017 – Dec. 2017); *Guest Lectures – Visual Imagery, Introduction to Memory*
- PSY100: Introduction to Psychology (Sept. 2016 – Dec. 2016)

St. Michael's Hospital	Sept. 2014 – Sept. 2016
Research Student – Gustavo Saposnik	
University of Toronto	Apr. 2016 – Sept. 2016
Data Analyst – Postgraduate Medical Education	
University of Toronto Scarborough	Sept. 2015 – Apr. 2016
Honours Thesis – Andy C. H. Lee	
Rotman Research Institute	May 2015 – Apr. 2016
Research Assistant/Student – Linda Mah	
University of Toronto Stroke Program	Sept. 2014 – Dec. 2014
Research Assistant – Three offices: <i>Toronto Western, Sunnybrook, and St. Michael's Hospital</i>	
Rotman Research Institute	Apr. 2014 – Sept. 2014
Research Assistant – Asaf Gilboa	

MENTORSHIP

- Victoria Silva, *Research Opportunity Program; Research Assistant* (May 2019 – Present)
- Audrey Huang, *Research Opportunity Program; Research Assistant* (May 2019 – Present)
- Helena Wang, *Independent Project Student; Research Assistant* (Sept. 2018 – Present)
- Heba Qazilbash, *Research Opportunity Program; Research Assistant; Independent Project Student* (Sept. 2018 – Present)
- Marlene Rong, *Research Opportunity Program; Research Assistant; Independent Project Student* (Sept 2017 – Present)

PROFESSIONAL SERVICE

1. Ebbinghaus Empire Speaker Series Organizer, *University of Toronto Department of Psychology* (2019 – 2020)
2. University of Toronto St. George Graduate Student Representative, *Psychology Graduate Chair Search Committee* (2018)
3. Session Chair, *Canadian Society for Brain, Behaviour, and Cognitive Sciences* (2017)
4. Inkblot: The Undergraduate Journal of Psychology, *Graduate Advisor* (2016 – 2019)

5. Psychology Graduate Students Association, *Graduate-Led Academic Speaker Series (GLASS) Coordinator* (2017 – 2018); *Social Coordinator* (2016 – 2018); *PGSA Buddy Program* (2017 – Present)

MEMBERSHIP

1. Cognitive Neuroscience Society (2019 – Present)
2. Vision Sciences Society (2017 – 2019)
3. Canadian Society for Brain, Behaviour, and Cognitive Sciences (2017 – 2018)