

# Aedan Yue Li

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## SUMMARY

### RESEARCH INTERESTS:

- Memory & perception, multisensory integration, machine learning, consciousness

### TECHNICAL SKILLS:

- Analysis of neuroimaging data; functional connectivity
- Manual medial temporal lobe (MTL) structural segmentation
- Psychology survey and behavioural research paradigms
- Advanced data analysis: GLMs, PLS, structural equation modelling, computational modelling, non-parametric statistics, machine learning
- Academic writing, data visualization, literature review, poster design

### LANGUAGES AND TECHNOLOGIES:

- Data analysis: MATLAB, SPSS, R, Excel, SQL
- Experiment creation: MATLAB, Python, E-prime, Presentation, PsychoPy, Inquisit
- Questionnaire creation: Qualtrics, SurveyMonkey
- Visual design: Photoshop CS, Illustrators

### STANDARDIZED TESTING:

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

<b>University of Toronto</b> Ph.D. Psychology – Advisor: Morgan D. Barense	<b>2017 – 2021 (Expected)</b>
<b>University of Toronto</b> M.A. Psychology (GPA: 4.00/4.00) – Advisor: Morgan D. Barense	<b>2016 – 2017</b>
<b>University of Toronto Scarborough</b> Hon. B. Sc. Psychology (GPA: 3.84/4.00) – Honours Thesis: Andy C. H. Lee	<b>2012 – 2016</b>

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## ACADEMIC & RESEARCH EXPERIENCE

### University of Toronto

Sept. 2016 – Present

#### Teaching Assistant

- PSY280: Sensation & Perception (Jan. 2018 – Present)
- PSY270: Intro. to Cognitive Psychology (Jan. 2017 – Dec. 2017); *Guest Lectures – Visual Imagery, Introduction to Memory*
- PSY100: Intro. to Psychology (Sept. 2016 – Dec. 2016)

### St. Michael's Hospital

Sept. 2014 – Sept. 2016

#### Research Student – Gustavo Saposnik

- Independent research under the guidance of Dr. Gustavo Saposnik, on silent stroke
- Two abstracts accepted for presentation at the International Stroke Conference, 2016

### University of Toronto

Apr. 2016 – Sept. 2016

#### Data Analyst – Postgraduate Medical Education

- Analyzed data from the Voice of the Residents survey (n = 925) sent to medical residents
- Data tables, descriptives (means and crosstabs), lit. review, reports, visualization

### University of Toronto Scarborough

Sept. 2015 – Apr. 2016

#### Honours Thesis – Andy C. H. Lee

- Project on mnemonic interference using a computer-based paradigm
- Modified 360 item shape stimulus set, contributed to the code
- Participant recruitment, poster presentation, written academic report

### Rotman Research Institute

May 2015 – Apr. 2016

#### Research Assistant/Student – Linda Mah

- Projects on emotion and memory in MDD, MCI, and Alzheimer's disease
- Analyzed fMRI data using PLS, subsequent structural equation modelling using SPSS AMOS
- Ethics application, consent form creation
- Modified 160 face stimuli; fixed problematic code
- Coded suicide implicit association task and data analysis script; a project on the efficacy of Ketamine to treat MDD

### University of Toronto Stroke Program

Sept. 2014 – Dec. 2014

#### Research Assistant – Three offices: *Toronto Western, Sunnybrook, and St. Michael's Hospital*

- Lit. review, data analysis, data visualization, report writing, and drafted two manuscripts
- Visual design for posters and material for conferences; visually updated organization website

## Rotman Research Institute

Apr. 2014 – Sept. 2014

Research Assistant – Asaf Gilboa

- Projects on higher-order conditioning and memory
- Participant recruitment, administration: Galvanic Skin Response (GSR), Autobiographical Memory Test, computer-based programs
- Created 50 item+ stimulus set of real-world food and logo images for use in a higher-order conditioning study; creation of questionnaire

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## NON-ACADEMIC EXPERIENCE

### WORK AND VOLUNTEER:

- YouthLink, *New Immigrant Program Leader* (2013 – 2014)
- YouthLink, *Leadership Camp Coordinator* (2013)
- Chinese Family Services of Ontario, *Program and Event Planner* (2010 – 2013)
- City of Toronto, *Volunteer Captain and Community Event Planner* (2010 – 2012)

### EXTRACURRICULARS:

- Inkblot: The Undergraduate Journal of Psychology, *Graduate Advisor* (2016 – Present)
- Psychology Graduates Students Association; *Graduate-Led Academic Speaker Series (GLASS) Coordinator* (2017 – Present); *Social Coordinator* (2016 – Present)
- University of Toronto League Association, *Member* (2012 – 2016)
- The Marketing Group, *Web and Design Executive* (2014 – 2015)
- Students of Sociology, *Creative Director* (2014 – 2015)
- Canadian Asian Student Society, *Event Planner* (2013)
- Albert Campbell Yearbook Committee, *Art & Design President* (2011 – 2012)
- Campbell Chronicles, *Art & Design President* (2011 – 2012)
- Cross-country, Track & Field, Swim Team, *Member* (2009 – 2011)

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## MENTORSHIP

- Darby Lowe, *Volunteer Research Assistant* (Jan. 2017 – May 2017)
- Julia Duder, *Research Opportunity Program* (May 2017 – Sept. 2017)
- Roksolyana Rusnyak, *PSY405 Independent Project, Work-Study* (May 2017 – April 2018)
- Marlene Rong, *Research Opportunity Program, Research Assistant* (Sept 2017 – Present)

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## AWARDS

- *Applied* – Alexander Graham Bell Canada Graduate Scholarships-Doctoral Program (2018)
- Best Student Poster (Runner Up) – Lake Ontario Visionary Establishment Conference (2018)
- **\$250** – UTGSU Conference Bursary (2018)
- *Applied* – CSBBCS Donald O. Hebb Graduate Student Award (2017)
- **\$17500** – Canada Graduate Scholarships-Master's Program Award (2017)
- **\$530** – SGS Conference Grant (2017)
- **\$3823/yr.** – University of Toronto Fellowship Award (2016, 2017)
- *Applied* – International Stroke Conference Travel Award for Junior Investigators (2016)
- University of Toronto Scarborough, Undergraduate Research Forum Finalist (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)

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## PUBLICATIONS

1. Li, A. Y., Fidalgo, C. O., Liang, J., Lee, A. C. H., Barense, M. D. (manuscript in prep). Examining the impact of item-distractor similarity using a validated circular shape space.
2. Casaubon, L. K., Hylton D., Li, Y., Vlahovic, K., Kalman, L., & Cayley, A. M. (Dec 2015). Transforming TIA and minor stroke care through a comprehensive, day-unit care model-the TIA And Minor Stroke (TAMS) Unit. *Submitted to Stroke*.

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## ABSTRACTS & POSTERS

1. Li, A. Y., Fidalgo, C. O., Liang, J., Lee, A. C. H., & Barense, M. D. (May 2018). Examining the impact of item-distractor similarity using a validated circular shape space. *Vision Sciences Society (VSS)*.
2. 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/12I3EWu4B7kU2w\\_830LlpQ82\\_92duJ4L/view](https://drive.google.com/file/d/12I3EWu4B7kU2w_830LlpQ82_92duJ4L/view)
3. **BEST POSTER AWARD (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/12I3EWu4B7kU2w\\_830LlpQ82\\_92duJ4L/view](https://drive.google.com/file/d/12I3EWu4B7kU2w_830LlpQ82_92duJ4L/view)
4. 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)*. URL: [https://www.csbbcs.org/ocs/public/conferences/1/schedConfs/1/program-en\\_US.pdf](https://www.csbbcs.org/ocs/public/conferences/1/schedConfs/1/program-en_US.pdf)

5. Li, A. Y., Fidalgo, C. O., Lee, A. C. H., & Barense, M. D. (May 2017). The impact of mnemonic interference on memory for visual form. *Vision Sciences Society (VSS)*. URL: [http://www.visionsciences.org/programs/VSS\\_2017\\_Abstracts.pdf](http://www.visionsciences.org/programs/VSS_2017_Abstracts.pdf)
6. 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](http://qvcl.queensu.ca/love/programs/2017_46_LOVE_Program.pdf)
7. 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](http://qvcl.queensu.ca/love/LOVE_Poster_sessions_2016.pdf)
8. Li, Y., Crump, L., Sharma, M., Sacco, R., Smith, E., Saposnik, G. (Feb 2016). Influence of Aversion to Uncertainty in STROKE Care. URL: [http://stroke.ahajournals.org/content/47/Suppl\\_1/ATP336.abstract?sid=8d1c12d8-849a-401d-bc17-0239617039d2](http://stroke.ahajournals.org/content/47/Suppl_1/ATP336.abstract?sid=8d1c12d8-849a-401d-bc17-0239617039d2)
9. 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. URL: [http://stroke.ahajournals.org/content/47/Suppl\\_1/ATMP37.abstract?sid=a8c83401-343c-4420-ad96-0f87f76dfc4c](http://stroke.ahajournals.org/content/47/Suppl_1/ATMP37.abstract?sid=a8c83401-343c-4420-ad96-0f87f76dfc4c)

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## CONFERENCES & PRESENTATIONS

1. Vision Sciences Society (VSS). Tampa, Florida; **poster** (May 2018)
2. Toronto Area Memory Group (TAMeG). Toronto, Ontario; **talk** – “Dissimilar interference erases, similar interference blurs: The nature of mnemonic interference explored using a novel perceptually uniform shape space” (May 2018)
3. Lake Ontario Visionary Establishment (LOVE). Niagara, Ontario; **poster** (Feb 2018)
4. University of Toronto MA Poster Day. Toronto, Ontario; **poster** (Jan 2018)
5. Ebbinghaus Empire Meeting. Toronto, Ontario; **data blitz** – “The creation and validation of a novel circular shape space” (Sept 2017)
6. Canadian Society for Brain, Behaviour, and Cognitive Sciences (CSBBCS). Regina, Saskatchewan; **talk** – “The impact of mnemonic interference on memory for visual form”; **Session Chair for Psycholinguistics** (June 2017)
7. Vision Sciences Society (VSS). Tampa, Florida; **poster** (May 2017)
8. Toronto Area Memory Group (TAMeG). Toronto, Ontario; **attended** (May 2017)
9. Ebbinghaus Empire Meeting. Toronto, Ontario; **data blitz** – “The impact of mnemonic interference on memory for visual form” (April 2017)

10. Lake Ontario Visionary Establishment (LOVE). Niagara, Ontario; *poster* (Feb 2017)

11. American Health Association International Stroke Conference 2016. Los Angeles, California; *poster* (Feb 2016)

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## **MEMBERSHIP**

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