

Felicia Zhang

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EDUCATION

Princeton University

2015 – Present

Ph.D Candidate in Cognitive & Developmental Psychology

PIs: Lauren Emberson & Casey Lew-Williams

University of Toronto

2010 – 2014

Honors B.Sc. with High Distinction in Psychology Research Specialist Program

PI: Morgan Barense

Thesis: The Effects of Training on Conjunctive Visual Search

AWARDS AND HONORS

NSERC Postgraduate Scholarship-Doctoral

2018 – Present

Overdeck Education Research Innovation Fund

2018

Centennial Fellowship in the Natural Sciences and Engineering

2015 – Present

Dean's List

2013, 2014

University of Toronto Undergraduate Awards in Natural Sciences and Engineering

2013

Queen Elizabeth II Aiming for the Top Scholarship

2010

University of Toronto President's Entrance Scholarship

2010

PUBLICATIONS

Zhang, F. & Emberson, L. L. (in prep). Pupil size as an index of prediction error: A review.

Zhang, F. & Emberson, L. L. (submitted). Opposing timing constraints severely limit the use of pupillometry to investigate visual statistical learning.

Zhang, F., Jaffe-Dax, S., Wilson, R. C. & Emberson, L. L. (2018). Prediction in infants and adults: A pupillometry study. *Developmental science*, e12780.

Liang, J., Erez, J., **Zhang, F.**, Cusack, R. & Barense, M.D. (2017). Neural evidence for unitization following perceptual expertise. *Journal of Vision*, 17(10).

D'Angelo, M.C., Smith, V.M., Kacollja, A., **Zhang, F.**, Binns, M.A., Barense, M.D., & Ryan, J. D. (2016). The effectiveness of unitization in mitigating age-related relational learning impairments. *Aging, Neuropsychology, and Cognition*, 1-24.

D'angelo, M. C., Smith, V. M., **Zhang, F.**, Kacollja, A., Barense, M. D., & Ryan, J. D. (2014). Aging and Unitization: Unitization Supports Relational Learning in Healthy Older Adults but not Those At-risk for MCI. *Canadian Journal of Experimental Psychology*, 68(4), 263.

CONFERENCE PRESENTATIONS

Zhang, F. & Emberson, L. L. (2019, March). Prediction Error in Auditory and Visual Domain of 6-month-old: A Pupillometry Study. Society for Research in Child Development 2019 Biennial Meeting, Baltimore, Maryland.

- Zhang, F.** & Emberson, L. L. (2018, July). Prediction Error in Auditory and Visual Domain of 6-month-old: A Pupillometry Study. International Congress of Infant Society Biennial Congress, Philadelphia, Pennsylvania.
- Zhang, F.,** Jaffe-Dax, S., Wilson, R. C. & Emberson, L. L. (2018, July). Prediction in Infants and Adults: A Pupillometry Study. International Congress of Infant Society Biennial Congress, Philadelphia, Pennsylvania.
- Zhang, F.** & Emberson, L. L. (2018, June). Prediction Error in Auditory and Visual Domain of 6-month-old: A Pupillometry Study. 1st International Workshop on Predictive Processing, San Sebastián, Spain.
- Zhang, F.,** Jaffe-Dax, S., Wilson, R. C. & Emberson, L. L. (2018, June). Prediction in Infants and Adults: A Pupillometry Study. 1st International Workshop on Predictive Processing, San Sebastián, Spain.
- Zhang, F.,** Jaffe-Dax, S., Wilson, R. C. & Emberson, L. L. (2017, June). Prediction and statistical learning in infants and adults: A Pupillometry Study. 1st International Conference on Interdisciplinary Advances in Statistical Learning, Bilbao, Spain.
- Zhang, F.** & Emberson, L. L. (2017, June). Examining the online mechanisms of visual statistical learning using pupillometry. International Conference on Interdisciplinary Advances in Statistical Learning, Bilbao, Spain.
- Zhang, F.,** Jaffe-Dax, S., Wilson, R. C. & Emberson, L. L. (2017, April). Prediction in young infants: A pupillometry study. Society for Research in Child Development 2017 Biennial Meeting, Austin, Texas.
- Zhang, F.,** Aslin, N. R. & Emberson, L. L. (2016, October). Investigating auditory prediction in young infants using fNIRS. The Society for functional Near Infrared Spectroscopy 2016 Biennial Meeting, Paris, France.
- Khatri, N., Hardy, J., **Zhang, F.,** Hynie, M. & Mitchell, S. (2015, May). Living Life to the Full for Older Adults: An Ontario pilot project. Global Mental Health Conference, Toronto, Ontario.
- Khatri, N., Hardy, J., **Zhang, F.,** Mitchell, S., & Hynie, M. (2015, March). Community based group intervention for older adults experiencing low mood and stress: An Ontario pilot project. Women in Science and Engineering National Conference Poster Competition, Toronto, Ontario.
- D'Angelo, M.C., Kacollja, A., Smith, V.M., Rabin, J.S., **Zhang, F.,** Binns, M.A., Rosenbaum, S., Barensse, M., & Ryan, J.D (2015, March). Unitization Supports Relational Learning in Healthy Aging and Amnesic Cases. 22nd Annual Meeting of the Cognitive Neuroscience Society, San Francisco, California.
- Khatri, N., Hardy, J., **Zhang, F.,** Mitchell, S., & Hynie, M. (2015, February). Community based group intervention for older adults experiencing low mood and stress: An Ontario pilot project. Ontario Psychological Association 68th Annual Conference, Toronto, Ontario.
- Khatri, N., Hardy, J., **Zhang, F.,** Mitchell, S., & Hynie, M. (2014, September). Community based group intervention for older adults experiencing low mood and stress: An Ontario pilot

project. Presented as a talk at the Canadian Coalition for Seniors' Mental Health – Canadian Academy of Geriatric Psychiatry Joint Scientific Meeting, Toronto, Ontario.

D'Angelo, M.C., Smith, V.M., **Zhang, F.**, Kacollja, A., Barensen, M., & Ryan, J.D. (2014, July). Aging and Unitization: Unitization Supports Relational Learning in Healthy Older Adults but not those At-Risk for MCI. 24th Annual Meeting of Canadian Society for Brain, Behaviour and Cognitive Science, Toronto, Ontario.

Erez, J., Cusack, R., **Zhang, F.**, & Barensen, M. (2014, April). Experience modifies the conjunctive neural representations necessary for complex object perception. 21st Annual Meeting of the Cognitive Neuroscience Society, Boston, Massachusetts.

D'Angelo, M.C., Smith, V.M., **Zhang, F.**, Kacollja, A., Barensen, M., & Ryan, J.D. (2014, March). Unitization supports relational learning in healthy older adults, but not those at-risk for MCI. 24th Annual Rotman Research Institute Neuroscience Conference, Toronto, Ontario.

D'Angelo, M.C., Smith, V.M., **Zhang, F.**, Kacollja, A., Barensen, M., & Ryan, J.D. (2014, February). Unitization supports relational learning in healthy older adults, but not those at-risk for MCI. 43rd Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Ontario.

Erez, J., Cusack, R., **Zhang, F.**, & Barensen, M.D. (2014, February). How the neural representations for feature conjunctions of complex objects change with experience. 43rd Annual Lake Ontario Visionary Establishment Conference, Niagara Falls, Ontario.

Zhang, F., Shen, J., Misquith, C., Mak, J., & Geva, E. (2012, July). Reading comprehension predictors in ELL second graders. 19th Annual Meeting of the Society for the Scientific Study of Reading, Montreal, Quebec.

TEACHING

Statistics Tutor, Princeton University	Spring 2019
PSY 254: Developmental Psychology Assistant-in-Instruction, Princeton University	Fall 2018
Online Teaching: R Programming and Statistics for Beginners Instructor, Princeton University	Summer 2018
PSY 255: Cognitive Psychology Assistant-in-Instruction, Princeton University	Spring 2018
PSY 254: Developmental Psychology Assistant-in-Instruction, Princeton University	Fall 2017
PSY 101: Introduction to Psychology Assistant-in-Instruction, Princeton University	Fall 2016

PROFESSIONAL ACTIVITIES

Subject Pool Graduate Student Representative	2018 – Present
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Princeton University Graduate Consulting Club	2018 – Present
Princeton Psychology Professional Development Committee	2017 – Present
Princeton Psychology Community-Building Leadership Council	2016 – 2018

REVIEWER

PloS One Developmental Science	2018 – Present
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OUTREACH

Princeton University <i>McGraw Graduate Teaching Fellow</i>	2018 – Present
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Princeton University <i>Graduate Fellow in Scholars Institute Fellows Program</i>	2017 – 2018
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Princeton University <i>Mentor in Office of Undergraduate Research - ReMatch</i>	2017
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University of Toronto <i>Mentor in Psychology Department</i>	2014 – 2017
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