

Curriculum Vitae
William Xiang Quan Ngiam

Department of Psychology
 Biopsychological Research Building
 University of Chicago
 United States
wngiam@uchicago.edu

Employment

2019 – present **Postdoctoral Research Fellow**
 University of Chicago (with Professor Edward Awh and Professor Edward Vogel)

Education

2015 – 2019 **Doctor of Philosophy** in Psychology
 University of Sydney (Supervisor: Professor Alex Holcombe)
 2011 – 2014 **Bachelor of Psychology (Honours)**
 University of Sydney (Supervisor: Dr Patrick Goodbourn)

Teaching and Professional Experience**Research**

2017 **Statistical Assistant/Programmer** on University of Sydney Strategic Education Grant/Educational Innovation Grant; *Using interactive learning to integrate statistical theory with contemporary research practices*
 2017 – 2018 **Research Assistant** on University of Sydney Faculty of Science/Seed Funding; *The development of attentional control in children with and without anxiety*

Teaching

Summer 2018 **Lecturer** for Science and Statistics in Psychology - Introduction to Psychology (PSYC1001), *University of Sydney*
 2015 – 2018 **Teaching Assistant** for Statistics and Research Methods for Psychology (PSYC2012), *University of Sydney*
 2015, 2017 **Teaching Assistant** for Advanced Statistics for Psychology (PSYC3010), *University of Sydney*
 2016 **Teaching Assistant** for Research Methods in Honours Psychology, *University of Sydney*

Miscellaneous

2020 – present **Founder and Organizer** of the University of Chicago ReproducibiliTea Journal Club

Honours and Awards

2015 – 2019 *Australian Government Department of Education and Training* – Research Training Program (RTP)
 Scholarship to undertake a research doctorate degree, formerly known as the Australian Postgraduate Award (APA).
 2015 – 2019 *University of Sydney* – Merit Award
 Top-up scholarship to undertake a research doctorate degree.
 2017 *University of Sydney* – PsychFEST Award
 Awarded for an excellent presentation in the School of Psychology's PsychFEST.
 2016 *Australian Government Department of Education and Training* – Endeavour Research Fellowship
 Competitive, merit-based scholarship to undertake study and research overseas.
 2014 *Australian Psychological Society* – APS Prize
 Awarded for being the top performing student in fourth year psychology (Honours).

Publications

Ngiam, W.X.Q., Adam, K.C.S., Quirk, C., Vogel, E.K., Awh, E. (submitted). Estimating the statistical power to detect set size effects in contralateral delay activity.

Ngiam, W.X.Q., Brissenden, J.A., Awh, E. (2019) "Memory compression" effects in visual working memory are contingent on explicit long-term memory. *Journal of Experimental Psychology: General*, 148(8), 1373.

<http://dx.doi.org/10.1037/xge0000649>

Ngiam, W.X.Q., Khaw, K.L.C., Holcombe, A.O., Goodbourn, P.T. (2019). Visual working memory for letters varies with familiarity but not complexity. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 45(10), 1761-1775. <http://dx.doi.org/10.1037/xlm0000682>

Goodbourn, P.T., Livesey, E.J., **Ngiam, W.X.Q.**, Holcombe, A.O., Forte, J.D. (in prep.). Learning new symbolic representations of number.

Bateman, J.E., Birney, D. P., **Ngiam, W.X.Q.** (2018). Relational encoding in visual working memory: Change detection performance is better for violations in group relations. *PLOS ONE* 13(9): e0203848.

<https://doi.org/10.1371/journal.pone.0203848>

Talks

Ngiam, W.X.Q., Adam, K.C.S., Quirk, C.T., Vogel, E.K., Awh, E. (2020, June). Power for detecting the presence of set size differences in the contralateral delay activity. *Virtual Working Memory Symposium*.

Ngiam, W.X.Q., Khaw, K.L.C., Holcombe, A.O., Goodbourn, P.T. (2018, April). Training recognition familiarity does not improve visual working memory performance. *45th Annual Conference of the Australasian Society for Experimental Psychology*, Hobart, Australia.

Ngiam, W.X.Q., Brissenden, J.A., Awh, E. (2017, April). Enhancing visual working memory performance using statistical regularities requires explicit awareness. *44th Annual Conference of the Australasian Society for Experimental Psychology*, Newcastle, Australia.

Posters

Ngiam, W.X.Q., Loetscher, K., Vogel, E.K., Awh, E. (2020, November). Item-based storage limits revealed by whole-report for dual-feature stimuli. *61st Annual Meeting of the Psychonomic Society*, online.

Ngiam, W.X.Q., Adam, K.C.S., Quirk, C., Vogel, E.K., Awh, E. (2020, November). Estimating the statistical power to detect set-size effects in the contralateral delay activity. *Object, Perception, Attention and Memory*, online.

Ngiam, W.X.Q., Loetscher, K., Vogel, E.K., Awh, E. (2020, May). Object-based memories revealed by whole-report for dual-feature stimuli. *20th Annual Meeting of the Vision Sciences Society*, online.

Ngiam, W.X.Q., Brissenden, J.A., Awh, E. (2019, November). "Memory compression" effects in visual working memory are contingent on explicit long-term memory. *60th Annual Meeting of the Psychonomic Society*, Montreal, Canada.

Ngiam, W.X.Q., Awh, E., Holcombe, A. O. (2019, May). Examining the effects of memory compression with contralateral delay activity. *19th Annual Meeting of the Vision Sciences Society*, Florida, United States.

Ngiam, W.X.Q., Khaw, K.L.C., Holcombe, A. O., Goodbourn, P.T. (2018, November). Training recognition familiarity is insufficient to improve visual working memory. *59th Annual Meeting of the Psychonomic Society*, New Orleans, United States.

Ngiam, W.X.Q., Brissenden, J.A., Awh, E. (2017, May). Memory compression using statistical regularities requires explicit awareness. *17th Annual Meeting of the Vision Sciences Society*, Florida, United States.

Ngiam, W.X.Q., Goodbourn, P.T. (2016, November). Familiarity, but not visual complexity, affects letter encoding in visual working memory. *57th Annual Meeting of the Psychonomic Society*, Boston, United States.

Ngiam, W.X.Q., Goodbourn, P.T. (2015, April). Encoding and capacity limits of visual working memory are not set by stimulus complexity. *42nd Annual Conference of the Australasian Society for Experimental Psychology*, Sydney, Australia.

Journals Reviewed For

Journal of Experimental Psychology: Learning, Memory and Cognition, *Nature Scientific Reports*, *Memory and Cognition*, *PLoS One*, *Psychological Research*