**Curriculum Vitae**

**William Xiang Quan Ngiam**

Department of Psychology

Biopsychological Research Building

University of Chicago

United States

[wngiam@uchicago.edu](mailto: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

2021, 2022 **Organizer** of the Working Memory Symposium

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

2021 – present **Steering Committee** member of ReproducibiliTea

2022 – present **Editor-in-Chief** of the Journal for Reproducibility in Neuroscience

**Honours and Awards**

2022 **Invited Contributor to Catalyzing Communities of Research Rigor** – *National Institutes of Health*

2021 **ONU Centennial Trust Recipient** – *Newington College*

2015 – 2019 **Research Training Program (RTP)** – *Australian Government Department of Education and Training*

2015 – 2019 **Merit Award** – *University of Sydney*

2017 **PsychFEST Award** – *University of Sydney*

2016 **Endeavour Research Fellowship** – *Australian Government Department of Education and Training*

2014 **APS Prize** – *Australian Psychological Society*

**Publications**

**Ngiam, W.X.Q.,** Foster, J.J., Adam, K.C.S., Awh, E. (under review). A signature of guessing supports an item limit in visual working memory.

**Ngiam, W.X.Q.,** Loetscher, K.B., Vogel, E.K., Awh, E. (in prep). Item-based storage revealed by whole-report for dual-feature stimuli.

**Ngiam, W.X.Q.** (2021). Fully Credited: Making Publishing More Equitable. *APS Observer*, *35*.

**Ngiam, W.X.Q.,** Adam, K.C.S., Quirk, C., Vogel, E.K., Awh, E. (2021). Estimating the statistical power to detect set size effects in contralateral delay activity. *Psychophsyiology, 58:e13791.* <https://doi.org/10.1111/psyp.13791>

**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*. [https://doi.org/10.1037/xge0000649](https://doi.apa.org/doi/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.* <https://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

**Conference Talks**

**Ngiam, W.X.Q.** Best practices with preregistration (2022, May). *Open Science Workshop* at *22nd Annual Meeting of the Vision Science Society,* Florida, United States.

**Ngiam, W.X.Q.** Open Science: a vision for a fair and equitable science. (2021, November). *Equity in Vision Science panel* at *OPAM29*, virtual.

**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.

**Conference Posters**

**Ngiam, W.X.Q.,** Loetscher, K., Vogel, E.K., Awh, E. (2022, May). Evidence for object-based encoding into visual working memory. *22nd Annual Meeting of the Vision Sciences Society*, Florida, United States.

**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; Journal of Experimental Psychology: Human Perception and Performance; Quarterly Journal of Experimental Psychology; Memory; Nature Scientific Reports; Memory and Cognition; PLoS One; Psychological Research; Neuroanatomy and Behaviour; Attention, Perception & Psychophysics; Neuroimage; eNeuro; Psychophysiology*