

# PAUL GARRETT

📍 Melbourne, Australia

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## EDUCATION

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**The University of Newcastle, Australia**

*2016 - Present*

PhD Candidate

Year of Candidature: 4

School of Psychology - Cognition Laboratory

Topic: Systems of numerical cognition.

**The University of Newcastle, Australia**

*2010 - 2015*

Bachelor of Psychology (Honors)

GPA: 5.8/7

School of Psychology

## TECHNICAL STRENGTHS

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**Computer Languages**

MATLAB, Python & R

**Software & Tools**

LaTeX, Excel, SPSS, JASP, GitHub & MkDocs

**Analysis skills**

Parametric, non-parametric and Bayesian statistics & mathematics

Systems analysis - architecture, operators and efficiency

Computational simulations and modelling

**Communication**

Oral presentations, science communication and scientific writing.

Teaching, mentoring and team building.

Networking; building interdisciplinary and international collaborations

Scientific reviewing.

## EXPERIENCE

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**Charles Darwin University**

September 2018 – December 2018

*Private Tutor - Statistics*

- Teaching basic through-to advanced principles of statistics and experimental design.
- Developing educational content, such as slides, mathematical walk-through excel-sheets and interactive tools, to easily convey core principles of statistics.

**The University of Newcastle**

February 2017 – July 2018

*University Tutor*

- Preparing and developing presentations for weekly 2hr tutorials.
- Teaching undergraduate cognitive psychology, writing and methodological design.

**The University of Newcastle -**

**Functional Neuroimaging Laboratory**

March 2013 – November 2014

*Research Assistant*

- Collecting, troubleshooting and analyzing data collected through neuroimaging techniques, predominantly electroencephalography (EEG), magnetic resonance imaging (MRI) and functional magnetic resonance imaging (fMRI).
- Modeling of behavioural data.

## ACADEMIC COURSES

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Statistics for the Sciences	Adv. Perception and Learning
Applied Statistics	Adv. Health Psychology
Adv. Methodology and Design	Adv. Cognitive Psychology
Adv. Psychological Measurement	Philosophy of Psychology
Adv. Methods and Statistics in Psychology	Philosophy of Religion
Adv. Social and Organizational Psychology	Biological Psychology
Pre-Professional Psychology (Years 1–4)	Introductory Psychology
<b>Note.</b> <i>Adv. Indicates completion of General &amp; Advanced units.</i>	

## ACADEMIC AWARDS

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- 2018 - Awarded the Best Standard Talk. Sydney Postgraduate Psychology Conference. UNSW.
- 2017 - Awarded the John and Daphne Keats endowment research fund for a cross-cultural study on the mental representations of written numbers in English and Chinese speakers.
- 2016 - Awarded the University of Newcastle 50:50 PhD Research Scholarship.
- 2015 - Awarded the Best Presentation Award - Honors Year Conference
- 2015 - Awarded the APS Award for Effort and Achievement (Honors Year)
- 2013 - Awarded Faculty of Science and Information Technology - School of Psychology Research in Cognitive Neuroscience Vacation Scholarship

## PUBLICATIONS

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- Garret, P. M.**, Chiam, P-Y, & Yang, C-T. (In prep). Visual word processing efficiency for Chinese characters and English words.
- Garrett, P. M.**, Yang, C-T., Bennett, M., Howard, Z., Little, D., & Eidels, A. (In prep). Cross cultural symbolic wheel of fortune: an investigation into the mental representation of digits for Chinese and English speakers. *Planned submission: Frontiers*
- Sreekumar, V., Evans, N. J., **Garrett, P. M.**, Yim, H., Sederberg, P., & Dennis, S. (In Prep). Using an experience sampling approach to distinguish distance versus location-based processing in memory for when. *Planned submission: Psychonomic Bulletin & Review*.
- Howard, Z. L., **Garrett, P. M.**, Little, D., Townsend, J. T., & Eidels, A. (In Submission). Nice guys check twice: exhaustive processes in systems factorial technology. *Psychological Review*.
- Garrett, P. M.**, Bennett, M., Howard, Z., Yang, C-T., Little, D., & Eidels, A. (Under review). The cost of errors: confusion analysis and the mental representation of familiar and unfamiliar digits. *Acta Psychologica*.
- Yim, H., **Garrett, P. M.**, Baker, M., Sreekumar, V., & Dennis, S. (Under Review). Examining dependencies among different time scales in episodic memory - an experience sampling study. *Journal of memory and language*.
- Garrett, P. M.**, Howard, Z. L., Landy, D., Houpt, J. W., & Eidels, A. (2019). Comparative estimation systems perform under severely limited workload capacity. *Journal of mathematical psychology*.
- Dennis, S., Yim, H., **Garrett, P. M.**, Sreekumar, V., & Stone, B. (2019). A system for collecting and analyzing experience sampling data. *Behavioural research methods*.
- Dennis, S., **Garrett, P. M.**, Yim, H., Sreekumar, V., & Stone, B. (2018). Privacy vs open science. *Behavioural research methods*.

Little, D. R., Eidels, A., Houpt, J. W., **Garrett, P. M.**, & Griffiths, D. W. (2018). Systems Factorial Technology analysis of mixture models. *Journal of mathematical psychology*.

Cooper, P.S., **Garrett, P. M.**, Rennie J.L. & Karayanidis F. (2015) Task Uncertainty Can Account for Mixing and Switch Costs in Task-Switching. *PLoS ONE*. 10(6).

## PEER REVIEWED CONFERENCE PROCEEDINGS

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Dennis, S., **Garrett, P.M.**, Yim, H., Hamm, J., Osth, A., Sreekumar, V., & Stone, B. (2019). Privacy versus Open Science. In Goel, A., Seifert, C., & Freksa, C. (Eds.) *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Yim, H., **Garrett, P. M.**, Baker, M., & Dennis, S. (2018). Examining the independence of scales in episodic memory using experience sampling data. *Proceedings of the 40th Annual Conference of the Cognitive Science Society*.

Dennis, S., Yim, H., Sreekumar, V., Evans, N., **Garrett, P. M.**, & Sederberg, P. (2017). A hierarchical Bayesian model of "memory for when" based on experience sampling data. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.

Tillman, G., Howard, Z., **Garrett, P. M.**, & Eidels, A. (2017). The Stroop Effect From a Mixture of Reading Processes: A Fixed-Point Analysis. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.

## CONFERENCE PRESENTATIONS & WORKSHOPS

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**Garrett, P.M.** (2019). The PhD and beyond! Pathways into and out of academia. Graduate researchers in psychological sciences workshop. University of Melbourne.

**Garrett, P.M.**, Howard, Z., Houpt, J. W., Landy, D., & Eidels, A. (2019). The comparison of large and small item-sets. The annual meeting of the Australian mathematical society, Melbourne.

**Garrett, P.M.**, Howard, Z., Houpt, J. W., Landy, D., & Eidels, A. (2018). Estimating multiple item-sets: Harder than you think! Sydney Postgraduate Psychology Conference, University of New South Wales.

**Garrett, P.M.** (2018). Mathematics in Cognitive Psychology. Computer-Assisted Research Mathematics and its Applications (CARMA): mathematical thinking workshop, Newcastle.

**Garrett, P.M.**, Yim, H., Sreekumar, V., Evans, N., & Dennis, S. (2018). A model for 'When' in memory. Hunter medical research institute post-graduate conference, Newcastle.

**Garrett, P.M.**, Yim, H., Sreekumar, V., Evans, N., & Dennis, S. (2018). A predictive model for 'When' in human memory. Experimental Psychology Conference, Hobart.

**Garrett, P.M.**, Houpt, J., Landy, D., & Eidels, A. (2018). Behavioural measures of numerical cognition (Seminar). School of Psychology, The University of Melbourne, Australia.

**Garrett, P.M.**, Waters, L.A., & Eidels, A. (2017). How many jelly beans in two jars? Hunter medical research institute post-graduate conference, Newcastle.

**Garrett, P.M.**, & Eidels, A. (2017). Assessing systems of estimation. The annual meeting of the Australian mathematical society, Brisbane.

**Garrett, P.M.**, Houpt, J., Landy, D., & Eidels, A. (2016). Parallel vs Serial systems of subitizing. Meeting of the 56<sup>th</sup> Psychonomic Society, Boston.

**Garrett, P.M.**, Houpt, J., Landy, D., & Eidels, A. (2016). Assessing systems of enumeration with SFT (Seminar). School of Psychology, Indiana University, Bloomington.

**Garrett, P.M.**, Thorpe, A., & Eidels, A. (2016). Are you being ‘Serial’? Parallel vs Serial systems of enumeration. Hunter medical research institute post-graduate conference, Newcastle.

**Garrett, P.M.**, & Eidels, A. (2016). A new method for assessing systems of enumeration. The annual meeting of the Australian mathematical society, Hobart.

## ACADEMIC MENTOR: CONGITIVE PSYCHOLOGY HONORS & PhD

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### **The University of Melbourne, Knowlab** ☞

2019 (Honors) - Lauren Cheng Fung & Carmen Lynch

### **The University of Newcastle, Cogntion Lab** ☞

2018 (Honors) – Present - Murray Bennett; continued to PhD, 2019

2018 (Honors) – Present - Mathew Grey; continued to PhD, 2019

2017 (Honors) – Present - Laura Waters; continued to PhD 2018

2017 (Honors) – Megan Baker, Nicholas Bignall & Rachael Millen

2016 (Honors) – Present - Alexander Thorpe; continued to PhD 2017

## REFEREES

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A/Prof. Ami Eidels

*Primary PhD Supervisor*

Ami.Eidels@newcastle.edu.au

Prof. Scott Brown

*Secondary PhD Supervisor*

Scott.Brown@newcastle.edu.au

Dr. Patrick Cooper

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Mr Zachary Howard

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Mr Alexander Thorpe

*Colleague*

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