

# Lina Teichmann

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## EDUCATION

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### **Macquarie University, Department of Cognitive Science, Sydney, Australia**

02/2016 – 02/2019 Ph.D.: Cognitive Science.

Supervisors: Prof. Anina Rich, Dr. Thomas Carlson.

01/2015 – 01/2016 Master of Research: Cognitive Science.

Supervisors: Prof. Anina Rich, Dr. Mark Nieuwenstein, Dr. Thomas Carlson

### **University of Groningen, Faculty of Behavioural and Social Sciences, Groningen, Netherlands**

09/2013 – 09/2014 Master of Science: Psychology.

Supervisors: Dr. Mark Nieuwenstein, Prof. Anina Rich

09/2010 – 09/2013 Bachelor of Science: Psychology.

Supervisor: Dr. Mark Nieuwenstein

## PROFESSIONAL APPOINTMENTS

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01/2020 – Present **National Institute of Mental Health, Laboratory of Brain and Cognition,  
Bethesda, MD, USA**

Post-doctoral Visiting Fellow

PI: Dr. Chris Baker

02/2019 – 10/2019 **Macquarie University, Department of Cognitive Science, Sydney, Australia**

Research Assistant [part-time]; PIs: Prof. Anina Rich, Dr. Matthew Crossley

**Macquarie University, Department of Psychology, Sydney, Australia**

Research Assistant [part-time]; PI: Dr. Kim Curby

## PEER-REVIEWED PUBLICATIONS & PREPRINTS

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(\* = equal contribution)

1. **Teichmann, L.**, Hebart, M. N., Baker, C. I. (2023). Multidimensional object properties are dynamically represented in the human brain. *Biorxiv*. <https://doi.org/10.1101/2023.09.08>.
2. Curby, K. M., **Teichmann, L.**, Peterson, M. A., Shomstein, S. S. (2023). Holistic processing is modulated by the probability that parts contain task-congruent information. *Attention, Perception, & Psychophysics*.
3. Hebart, M. N.\* , Contier, O.\* , **Teichmann, L.\***, Rockter, A. H., Zheng, C. Y., Kidder, A., Corriveau, A., Vaziri-Pashkam, M., & Baker, C. I. (2023). THINGS-data, a multimodal collection of large-scale datasets for investigating object representations in human brain and behavior. *Elife*, 12, e82580.
4. Corriveau, A.\* , Kidder, A.\* , **Teichmann, L.**, Wardle, S., Baker, C. I. (2023). Sustained neural representations of personally familiar people and places during cued recall. *Cortex*, 158, 71-82.
5. **Teichmann, L.\***, Moerel, D.\* , Rich, A. N., Baker, C. I. (2022). The nature of neural object representations during dynamic occlusion. *Cortex*, 153, 66-86.
6. **Teichmann, L.**, Moerel, D., Baker, C. I., Grootswagers, T. (2022). An empirically-driven guide on using Bayes Factors for M/EEG decoding. *Aperture Neuro*, 1(8) 1-10.
7. Curby, K. M., & **Teichmann, L.** (2022). The time course of holistic processing is similar for face and non-face Gestalt stimuli. *Attention, Perception, & Psychophysics*, 84, 1234-1247.
8. **Teichmann, L.**, Edwards, G., Baker, C. I. (2021). Resolving visual motion through perceptual gaps. *Trends in Cognitive Science*, 25(11), 978-991.

9. **Teichmann, L.**, Grootswagers, T., Moerel, D., Carlson, T. A., & Rich, A. N. (2021). Temporal dissociation of neural activity underlying synaesthetic and perceptual colours. *Proceedings of the National Academy of Sciences*, 118(6).
10. **Teichmann, L.**, Quek, G. L., Robinson, A. K., Grootswagers, T., Carlson, T. A., & Rich, A. N. (2020). The influence of object-color knowledge on emerging object representations in the brain. *Journal of Neuroscience*, 40(35), 6779-6789.
11. Wardle, S. G., Taubert, J., **Teichmann, L.**, Baker, C. I. (2020). Rapid and dynamic processing of face pareidolia in the human brain. *Nature Communications*, 11(1), 1-14.
12. **Teichmann, L.**, Grootswagers, T., Carlson, T. A., & Rich, A. N. (2019). Seeing versus knowing: The temporal dynamics of real and implied colour processing in the human brain. *NeuroImage* 200, 373-381.
13. **Teichmann, L.**, Grootswagers, T., Carlson, T. A., & Rich, A. N. (2018). Decoding digits and dice with Magnetoencephalography: Evidence for a shared representation of magnitude. *Journal of Cognitive Neuroscience*, 30(7), 999-1010.
14. Coltheart, M., Cox, R., Sowman, P., Morgan, H., Barnier, A., Langdon, R., Connaughton, E., **Teichmann, L.**, Williams, N., & Polito, V., (2018). Belief, delusion, hypnosis, and the right dorsolateral prefrontal cortex: A transcranial magnetic stimulation study. *Cortex*, 101, 234-248.
15. **Teichmann, A. L.**, Nieuwenstein, M. R., & Rich, A. N. (2017). Digit-colour synaesthesia only enhances memory for colours in a specific context: A new method of duration thresholds to measure serial recall. *Journal of Experimental Psychology: Human Perception and Performance*, 43(8), 1494-1503.
16. de Wit, B., Badcock, N. A., Grootswagers, T., Hardwick, K., **Teichmann, L.**, Wehrman, J., Williams, M., & Kaplan, D. M. (2017). Neurogaming Technology Meets Neuroscience Education: A Cost-Effective, Scalable, and Highly Portable Undergraduate Teaching Laboratory for Neuroscience. *Journal of Undergraduate Neuroscience Education (JUNE)*. 15(2): A104-A109.
17. **Teichmann, A. L.**, Nieuwenstein, M. R., & Rich, A. N. (2015). Red, green, blue equals 1, 2, 3: Digit-color synesthetes can use structured digit information to boost recall of color sequences. *Cognitive Neuroscience*, 6(2-3), 100-110.

#### **MOST RECENT CONFERENCE PRESENTATIONS (total = 18)**

1. **Teichmann, L.**, Garside, D., Benitez-Andonegui, A., Montesions, S., Conway, B.\*, Baker, C.\*. (2023). The temporal evolution of colour-space geometries in the human brain. *Organization for Human Brain Mapping, Montreal, Canada*. [Poster].
2. **Teichmann, L.**, Hebart, M., Baker, C. I. (2022). How behaviorally-relevant object dimensions unfold over time during visual processing. *Society for Neuroscience Meeting, San Diego, USA* [Talk].
3. **Teichmann, L.**, Behel, A. K., Edwards, G., Baker, C. I. (2022). Visual integration plays a critical role when processing motion through periods of occlusion. *European Conference on Visual Perception, Nijmegen, The Netherlands*. [Talk].
4. **Teichmann, L.**, Hebart, M., Baker, C. I. (2022). The temporal dynamics underlying behaviorally-relevant object properties during visual perception. *Organization for Human Brain Mapping, Glasgow, Scotland*. [Talk & Poster].
5. **Teichmann, L.\***, Moerel, D.\*, Rich, A. N., Baker, C. I. (2022). The temporal dynamics of object representation during dynamic occlusion. *Vision Science Society Annual Meeting, St Pete, FL, USA*. [Talk].

#### **INVITED TALKS**

08/2022	MRC Cognition and Brain Sciences Unit, University of Cambridge, UK
08/2022	Department of Cognitive Neuroscience, University of Maastricht, the Netherlands
06/2022	Visual and Cognitive Neuroscience Lab, University of Fribourg, Switzerland
06/2022	Brain Mind Institute, Swiss Federal Institute of Technology, Lausanne, Switzerland
06/2022	Applied Face Cognition Lab, University of Lausanne, Switzerland
06/2022	Vision and Cognition Lab, University of Tübingen, Germany
12/2021	Brain Dynamics Lab, University of Salzburg, Salzburg, Austria
03/2021	Fellows Afternoon Neuroscience Seminar, NIMH, Bethesda, USA
11/2018	Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, the Netherlands

06/2018 Parvizi Lab, Stanford University, Palo Alto, USA  
05/2018 Kanwisher Lab, the Massachusetts Institute of Technology (MIT), Cambridge, USA  
05/2018 Harvard Vision Lab, Harvard University, Cambridge, USA  
01/2017 French National Institute for Health and Medical Research (INSERM), Saclay, France  
01/2017 Department of Experimental Psychology, University of Groningen, the Netherlands

## SCHOLARSHIPS & FUNDING

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2020 Intramural Visiting Research Fellowship. National Institute of Mental Health.  
2018 Postgraduate Research Fund Faculty of Human Sciences, Macquarie University.  
2017 Australian Research Council Centre of Excellence in Cognition and its Disorders Student Exchange Scheme 2017.  
2015 International Macquarie University Research Training Program Scholarship (Masters and PhD).  
2012/13 Marco Polo Travel Grant, University of Groningen.

## AWARDS

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2022 Merit Award Organization for Human Brain Mapping  
2019 Macquarie University Research Excellence Award (Finalist)  
2018 Macquarie University Higher Degree Research Excellence Award (Winner)  
2018 Australasian Cognitive Neuroscience Society (ACNS) Student Travel Award (2018)  
2017 ARC Centre of Excellence in Cognition and its Disorders Annual Workshop Poster Award  
2016 CCD Annual Workshop Highly Commended Poster Award  
2016 CCD Excellence in Research Student Award: Outstanding 2015 Publication  
2015 CCD Annual Workshop Best Postgrad Poster Award

## TEACHING EXPERIENCE

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2021 Teaching assistant for *Deep Learning Summer School*. Neuromatch, Academy global & virtual initiative.  
2016 – 2019 Teaching assistant for *COGS100 Introduction to Cognitive and Brain Sciences*, Macquarie University, Sydney, Australia. Course convenor: Prof. Mark Williams  
2016 Teaching assistant for *COGS101 Delusions and Disorders of the Mind and Brain*, Macquarie University. Sydney, Australia. Course convenor: Prof. Anne Castles  
2015 – 2016 Teaching assistant for *PSYC352 Appetite – The Psychology of Eating and Drinking*, Macquarie University, Sydney, Australia. Course convenor: Prof. Richard Stevenson

## SELECTED SCIENCE VOLUNTEERING ROLES

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2021 – 2023 BrainPost Neuroscience Blog writer. Summarising recent scientific papers for the general public.  
2020 Neuromatch Academy Computational Neuroscience Summer School. Content reviewer and outreach volunteer.

## ACADEMIC REFERENCES

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Dr Christopher Baker, National Institutes of Health, USA  
[bakerchris@mail.nih.gov](mailto:bakerchris@mail.nih.gov)

Prof. Anina Rich, Macquarie University, Australia  
[Anina.rich@mq.edu.au](mailto:Anina.rich@mq.edu.au)