

COOPER ALAN SMOUT

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EDUCATION

- 2020** **Open Life Science Leaders**
Mozilla Open Leaders Online Course, <https://openlifesci.org>
- PhD Unlimited and Social Enterprise Explorers**
University of Queensland (UQ) Ventures, Brisbane, Australia
- 2015–2020** **Doctor of Philosophy (PhD) in Cognitive Neuroscience**
Queensland Brain Institute, University of Queensland, Brisbane, Australia
- Dean's award for Outstanding Thesis, 2020
 - Endeavour Postgraduate Scholarship (**national competition**), 2018
 - Centre for Integrative Brain Function Travel Award, 2017
 - UQ Candidate Development Award, 2017
 - Australasian Cognitive Neuroscience Society Poster Award, 2015
- 2010–2013** **Bachelor of Science (B.Sc.) in Psychology (1st class honors)**
University of Queensland, Australia (ranked 9th globally for Psychology in 2013)
- 6.95 GPA (out of 7)
 - Australian Psychological Society Prize (**highest GPA in cohort**), 2013
 - UQ McElwain Prize (**highest honors thesis grade on record**), 2013
 - UQ Dean's Commendation for Academic Excellence, 2013
 - UQ Dean's Commendation for High Achievement, 2011–2012
- 1999–2002** **Bachelor of Design Studies (B.Des.St.) in Architecture**
University of Queensland, Brisbane, Australia
- 6.00 GPA (out of 7)
 - UQ SRIA Prize for Sustainable Design, 2002
 - UQ Dean's Commendation for High Achievement, 1999–2000
- 1994–1998** **Senior Certificate**
Brisbane Grammar School, Brisbane, Australia
- **1st overall position** (state-wide rank out of 25)
 - Dux of Biology Prize for **highest grade in senior years**, 1998
 - General Merit Prize, 1997–1998

WORK EXPERIENCE

2022-24	Founder & President — <i>Open Heart + Mind (OHM)</i> , Citizen-science community and registered charity, Brisbane, Australia
2019-23	Founder & Project Lead — <i>Free Our Knowledge (FOK)</i> , Open source collective action platform (online)
2021	Project Lead — <i>MERITS</i> , eLife Innovation Sprint project (online)
2021	Postdoctoral Researcher — <i>Queensland Brain Institute, The University of Queensland</i> , Brisbane, Australia
2020	Asia-Pacific Hub Manager — <i>Open Science Room</i> at the 26 th meeting of the Organization for Human Brain Mapping (online conference)
2014, 2020	Research Assistant — <i>Queensland Brain Institute</i> , Brisbane, Australia
2006–2009	Architectural Designer — <i>Rice Daubney</i> , Brisbane; <i>Bespoke Designs</i> , London, UK
2003–2005	Architectural Assistant — <i>Bark Design</i> , Noosa; <i>ML Design</i> , Brisbane, Australia

PEER-REVIEWED PUBLICATIONS

1. **Smout, C.**, Holford, D., Garner, K., Illanes, M., Martinez, P., Campbell, M., Khormi, I., Gomes, D., Bayer, J., Bradley, C., Schettino, A., Sunami, N., Mansour L., S., & Coelho, L. P. (2023). *An Open Code Pledge for the Neuroscience Community*. Short article within Nikolaidis, A. et al. (2023). *Proceedings of the OHBM Brainhack 2021*. Aperture Neuro, 3, 12-13.
2. Gomes, D. G. E., Pottier, P., Crystal-Ornelas R., Hudgins E. J., Foroughirad V., Sánchez-Reyes L. L., Turba R., Martinez P. A., Moreau D., Bertram M. G., **Smout C.**, & Gaynor K. M. (2022). *Why don't we share data and code? Perceived barriers and benefits to public archiving practices*. *Proceedings of the Royal Society B: Biological Sciences*, 289(1987).
3. Besançon, L., Peiffer-Smadja, N., Segalas, C., Jiang, H., Masuzzo, P., **Smout, C.**, Deforet, M., & Leyrat, C. (2021). *Open Science Saves Lives: Lessons from the COVID-19 Pandemic*. *BMC Medical Research Methodology*, 21(117), 1-18.
4. **Smout, C.**, Garrido, M., & Mattingley, J. (2020). *Global effects of feature-based attention depend on surprise*. *NeuroImage*, 215, 116785.
5. **Smout, C.**, Tang, M., Garrido, M., & Mattingley, J. (2019). *Attention promotes the neural encoding of prediction errors*. *PLOS Biology*, 522185.
6. Tang, M., **Smout, C.**, Arabzadeh, E., & Mattingley, J. (2018). *Prediction error and repetition suppression have distinct effects on neural representations of visual information*. *eLife*, 7:e33123.
7. **Smout, C.**, & Mattingley, J. (2018). *Spatial attention enhances the neural representation of invisible signals embedded in noise*. *Journal of Cognitive Neuroscience*, 30(8), 1119–1129.

THESES

1. **Smout, C.**, (2020). *Great expectations: The neural mechanisms of prediction and attention in visual awareness*. PhD Thesis, Queensland Brain Institute, The University of Queensland, Brisbane, Australia. DOI:10.14264/uql.2020.818 (**awarded prize** for Dean's award).

2. **Smout, C.** (2013). *Attending to the unseen: The effects of spatial attention on neural responses to visible and invisible stimuli*. Honors Thesis, School of Psychology, The University of Queensland, Brisbane, Australia (**awarded prize** for highest-graded thesis).

PRESENTATIONS

1. **Smout, C.** (2024). *Quantifying value and incentivising contributions to diverse communities*. 30 minute talk at the ZuBerlin pop-up city, Berlin, Germany.
2. **Smout, C.** (2024). *A universal framework for recognising valuable contributions to diverse communities*. Lightning talk and hackathon at the 9th meeting of the Society for the Improvement of Psychological Science, Nairobi, Kenya.
3. **Smout, C.** (2024). *Decentralized Science*. **Invited panel discussion** at the Zanzalu pop-up city, Zanzibar, Tanzania.
4. **Smout, C.** (2024). *Who watches the watchers? Self-referential peer-review for autonomous organisations*. 45 minute talk at the Zanzalu pop-up city, Zanzibar, Tanzania.
5. **Smout, C.** (2024). *WISDOM: A universal framework for commons-oriented communities*. Lightning talk at the Astera Institute Open Science Demo Night, San Francisco, USA.
6. **Smout, C. & Sierra, A.** (2024). *WISDOM: An open source framework for self-organising communities*. Workshop at the Vibeclipse Unconference, Austin, Texas, USA.
7. **Smout, C.** (2023). *WisdOHM: A novel app and metascientific system for ranking and rewarding diverse contributions*. Discussion group at the 5th meeting of the Association for Interdisciplinary Meta-research & Open Science, Brisbane, Australia.
8. **Smout, C., Holford, D., & Masuzzo, P.** (2021). *MERITS: Metaresearch Evaluation Repository for Identifying Trustworthy Science*. Hackathon project at the eLife Innovation Sprint (online).
9. **Smout, C.** (2021). *Accelerating cultural change with collective action: A Project Free Our Knowledge update*. Lightning talk at the 6th meeting of the Society for the Improvement of Psychological Science (online).
10. **Smout, C.** (2021). *Reimagining the incentivization structure in academia*. **Invited talk** at the 27th meeting of the Organization for Human Brain Mapping (online).
11. **Smout, C.** (2021). *Introduction to Project Free Our Knowledge*. Lightning talk at the 2021 meeting of the UK Reproducibility Network (online).
12. Pottier, P., **Smout, C., Nakagawa, S.** (2021). *Registered Reports Now*. Hackathon at the 1st meeting of the Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (online).
13. **Smout, C.,** (2021). *Introducing Project Free Our Knowledge: the collective action platform for researchers*. Short presentation at the 1st meeting of the Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (online).
14. **Smout, C.** (2020). *Project Free Our Knowledge Update*. Lightning talk at the 2nd meeting of the Association for Interdisciplinary Meta-Research and Open Science (online).
15. **Smout, C.** (2020). *Using collective action to amalgamate open science discussions*. **Invited talk** at the 1st SciBeh Workshop on Building an Online Information Environment for Policy Relevant Science (online).

16. **Smout, C., & Liu, D. (2020).** *Developing an evidence-based, decentralised scholarly communication and evaluation system.* Unconference at the 1st meeting of the Psychological Science Accelerator (online).
17. **Smout, C., Auer, T., Ilangoan, V., Marinazzo, D., Rae, C., Spaak, E., Johnstone, T., Nolan, C. & Garner, K. (2020).** *Developing collective action campaigns to change norms and drive progress in academia.* Emergent session at the 26th meeting of the Organization for Human Brain Mapping (online).
18. **Smout, C., & Garner, K. (2020).** *Introducing Project Free Our Knowledge.* Emergent session at the 26th meeting of the Organization for Human Brain Mapping (online).
19. **Smout, C. (2020).** *Developing collective action campaigns to change norms and drive progress in academia.* Hackathon at the 5th meeting of the Society for the Improvement of Psychological Science (online).
20. **Smout, C. (2020).** *Designing a register of replicability estimates for published research findings.* Unconference at the 5th meeting of the Society for the Improvement of Psychological Science (online).
21. **Smout, C. (2019).** *Is open access disrupting to the staggeringly profitable business of academic publishing? Invited panel discussion* for International Open Access Week at The University of Queensland, Brisbane, Australia.
22. **Smout, C., Bannach-Brown, A., Barbour, G., Ling, M., Panczak, R. (2019).** *Reproducible science. Invited panel discussion* at the Re:Produce Workshop, Brisbane, Australia.
23. Tennant, J., Caron, B., Havemann, J., Guay, S., Colomb, J., Lantsoght, E., Tóth-Czifra, E., Kriegel, K., Ahinon, J., **Smout, C. (2019).** *Open principles. Invited video contribution* to the 1st module of the Open Science MOOC. Zenodo. DOI:10.5281/zenodo.2595951
24. **Smout, C. (2019).** *Project Free Our Knowledge.* Lightning talk at the 1st meeting of the Association for Interdisciplinary Meta-Research and Open Science, Melbourne, Australia.
25. **Smout, C. (2019).** *Project Free Our Knowledge.* Lightning talk and Unconference at the 4th meeting of the Society for the Improvement of Psychological Science, Rotterdam, Netherlands.
26. **Smout, C. (2018).** *Project Free Our Knowledge.* Lightning talk and Unconference at the 1st Australasian Open Science conference, Brisbane, Australia.
27. **Smout, C. (2018).** *Scholarly publishing is broken: How should we fix it?* Presentation at the Donders Sessions, Radboud University, Nijmegen, Netherlands
28. **Smout, C., & Mattingley, J. (2014).** *Attending to the unseen.* Symposium talk at the 18th Association for the Scientific Study of Consciousness conference, Brisbane, Australia.

CONFERENCE POSTERS

1. **Smout, C. (2019).** *Disrupting journal impact factors with machine learning and numerical open evaluation.* 4th meeting of the Society for the Improvement of Psychological Science, Rotterdam, Netherlands.
2. **Smout, C., & Mattingley, J. (2017).** *Expectation affects pre-stimulus feature representations.* 13th International Conference for Cognitive Neuroscience, Amsterdam, Netherlands.
3. **Smout, C., & Mattingley, J. (2015).** *Spatial attention and awareness are distinct neural processes.* 19th Association for the Scientific Study of Consciousness conference, Paris, France.

4. **Smout, C., & Mattingley, J. (2015).** *Spatial attention and awareness are distinct neural processes*. 5th meeting of the Australasian Cognitive Neuroscience Society, Auckland, New Zealand (**poster prize awarded**).
5. **Smout, C., & Mattingley, J. (2014).** *Attending to the unseen*. 12th International Conference for Cognitive Neuroscience, Brisbane, Australia.

FUNDING

2022	Private donation to Open Heart + Mind — AUD\$50,000
2020-21	Poker winnings (self-funded) — AUD\$155,000
2018	Endeavour Postgraduate Scholarship — AUD\$28,500

PRIMARY SKILLS

- Matlab, Git
- Signal processing (EEG, MEG), machine learning, computational modelling
- Parametric and non-parametric statistical testing, Bayesian analyses

ASSOCIATIONS

Society for the Improvement of Psychological Science	<i>Member</i>
Association for Interdisciplinary Meta-Research and Open Science	<i>Member</i>

HOBBIES & INTERESTS

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|------------------|--------------------|----------------|
| • Open science | • Yoga, meditation | • Snowboarding |
| • Sustainability | • Guitar, singing | • Rockclimbing |

REFERENCES

Professor Jason Mattingley +61 7 3346 6331 j.mattingley@uq.edu.au	<i>Foundation Chair in Cognitive Neuroscience Queensland Brain Institute & School of Psychology University of Queensland, St Lucia, Australia</i>
Professor Floris de Lange +31 2 4365 3277 florisdela@gmail.com	<i>Predictive Brain Lab Head Donders Institute for Brain, Cognition and Behaviour Radboud University, Nijmegen, Netherlands</i>