

# Jonathan E. Prunty

Centre for the Future of Intelligence, University of Cambridge, UK

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## Work Experience & Employment

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- 2024 – Research Associate, *University of Cambridge, Centre for the Future of Intelligence (CFI)*
- 2022 – 2023 Research Associate, *University of Kent, Personal Social Services Research Unit (PSSRU)*
- 2019 – 2022 Research Associate and Project Supervisor, *University of Kent, School of Psychology*
- 2016 – 2019 Associate Lecturer, *University of Kent, School of Psychology*
- 2018 Research Assistant, *University of Kent, School of Psychology*

## Education & Qualifications

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- 2016 – 2019 PhD in Developmental Psychology, *University of Kent*
- 2017 – 2018 Associate Fellow of the Higher Education Academy (AFS), *University of Kent*
- 2013 – 2014 MSc in Neuroscience (Distinction), *King's College London*
- 2010 – 2013 BSc in Cognitive Science (First Class), *University of Westminster*

## Publications

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- Prunty, J. E.**, Tešić, M., Burden, J., Slater, B., Tidler, Z., Clothier, P., Sun, L., Collins, K., Gonçalves, B., Corsi, G., Ó hÉigeartaigh, S., Cheke, L.G., Cave, S., Hernandez-Orallo, J. (under review). Reverse Turing Tests for human-machine task suitability assessments should be profile-driven. *Neurips*.
- Romero-Alvarado, D., ... **Prunty, J. E.**, ... Hernandez-Orallo, J. (under review). Capabilities ain't all you need: Measuring propensities in AI. *Neurips*. Preprint DOI: 10.48550/arXiv.2602.18182
- Pacchiardi, L., ... **Prunty, J. E.**, ... Hernandez-Orallo, J. (under review). Continual learning requires evaluating trajectories. *Neurips*.
- Prunty, J. E.**, Zhang, S., Quinn, P., Lian, J., Xing, X., Cheke, L.G. (accepted). Visuospatial perspective taking in multimodal language models. In *Cog Sci*. Preprint DOI: 10.48550/arXiv.2603.23510
- Zhou, L., Pacchiardi, L. ... **Prunty, J. E.**, ... Hernandez-Orallo, J. (2026). General scales unlock AI evaluation with explanatory and predictive power. *Nature* DOI: 10.1038/s41586-026-10303-2
- Burden, J., **Prunty, J. E.**, Slater, B., Tehenan, M., Davis, G., Cheke, L. G. (2025). Visual search paradigms reveal human-like signatures in multimodal large language models. Preprint DOI: 10.48550/arXiv.2510.19678
- Prunty, J. E.**, Zhang, J., Toma, M., Miller, R., Forder, J. E. (2025) Effect of strengths-based care: community led support. *Eur J Ageing* 22, 51. DOI: 10.1007/s10433-025-00884-8
- Mecattaf, M.G., Slater, B., Tešić, M., **Prunty, J. E.**, Voudouris, K., Cheke, L.G. (2025). A little less conversation, a little more action, please: Investigating the physical common-sense of LLMs in a 3D embodied environment. In *PRICAI* DOI: 10.1007/978-981-95-7078-2\_18
- Prunty, J. E.**, O'Flynn, A., Quinn, P., & Cheke, L. G. (2025). INTUIT: Investigating intuitive reasoning in humans and language models. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 47).

- Zhang J., **Prunty J. E.**, Charles A. C., & Forder J. E. (2025) Association Between Digital Front Doors and Social Care Use for Community-Dwelling Adults in England: Cross-Sectional Study. *Journal of Medical Internet Research*, 27, e53205. DOI: 10.2196/53205
- Prunty, J. E.**, Jenkins, R., Qarooni, R., & Bindemann, M. (2024). Face detection in contextual scenes. *PLoS ONE*. DOI: 10.1371/journal.pone.0304288
- Prunty, J. E.**, Jenkins, R., Qarooni, R., & Bindemann, M. (2024). A cognitive template for face detection. *Cognition*. DOI: 10.1016/j.cognition.2024.105792
- Nevard, A., Hole, G., **Prunty, J. E.**, Bindemann, M. (2023). Understanding face detection with visual arrays and real-world scenes. *Visual Cognition*. DOI: 10.1080/13506285.2023.2277475
- Claydon, J., Fysh, M., **Prunty, J. E.**, Moreton, R., & Bindemann, M. (2022). Facial Comparison Behaviour of Forensic Facial Examiners. *Applied Cognitive Psychology*. DOI: 10.1002/acp.4027
- Prunty, J. E.**, Jenkins, R., Qarooni, R., & Bindemann, M. (2022). Ingroup and outgroup differences in face detection. *British Journal of Psychology*. 114(S1), 94-111. DOI: 10.1111/bjop.12588
- Qarooni, R., **Prunty, J. E.**, Bindemann, M., & Jenkins, R. (2022). Capacity limits in face detection. *Cognition*. DOI:10.1016/j.cognition.2022.105227
- Prunty, J. E.**, Keemink, J. R., & Kelly, D. J. (2022). Infants show pupil dilatory responses to happy and angry facial expressions. *Developmental Science*, 25(2), e13182. DOI: 10.1111/desc.13182
- Prunty, J. E.**, Keemink, J. R., & Kelly, D. J. (2021). Infants scan static and dynamic facial expressions differently. *Infancy*, 26(6), 831– 856. DOI: 10.1111/inf.12426
- Keemink, J. R., Wood, Jenner, **Prunty, J. E.** & Kelly, D. J. (2021). Eye movements and behavioural responses to gaze contingent expressive faces in typically-developing infants and infant siblings. *Autism Research*. 14, 973-983. DOI: 10.1002/aur.2432
- Prunty, J. E.**, Jackson, K., Keemink, J. R. & Kelly, D. J. (2020). Caucasian infants' attentional orienting to own- and other-race faces. *Brain Sciences*, 10(1), 53. DOI: 10.3390/brainsci10010053
- Pascalis, O., Fort, M., **Prunty, J. E.** & Kelly, D. J. (2020). Face processing. In Fair, Benson, J. B. (Ed.) *Encyclopedia of Infant and Early Childhood Development*. 2<sup>nd</sup> Edition. Vol. 1, Elsevier, pp. 575-583. DOI: 10.1016/B978-0-12-809324-5.23264-1
- Spain, D., Sin, J., Paliokosta, E., Furuta, M., **Prunty, J. E.**, Chalder, T., Murphy, D. G. & Happé F. G. (2017). Family therapy for autism spectrum disorders. *Cochrane Database of Systematic Reviews*, Issue 5. Art. No.: CDo11894. DOI:10.1002/14651858.CD011894.pub2.
- Spain, D., Rumball, F., O'Neill, L., Sin, J., **Prunty, J. E.**, & Happé F. G. (2016). Conceptualizing and treating social anxiety in autism spectrum disorder: A focus group study with multidisciplinary professionals. *Journal of Applied Research in Intellectual Disabilities*, 30, 10-21. DOI: 10.1111/jar.12320

## Conference Presentations

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- Prunty, J. E.**, O'Flynn, A., Quinn, P., & Cheke, L. G. (2.8.2025). INTUIT: Investigating intuitive reasoning in humans and language models. Poster presented at *CogSci*, held in San Francisco, USA.
- Prunty, J. E.**, Jenkins, R., Qarooni, R., & Bindemann, M. (28.8.2022). Ingroup and outgroup differences in face detection. Poster presented at *ECVP*, held in Nijmegen, Netherlands.

- Prunty, J. E.,** Jenkins, R., Qarooni, R., & Bindemann, M. (21.7.2021). Cognitive templates for human face detection. Poster presented at *vSARMAC*.
- Prunty, J. E.,** Jenkins, R., Qarooni, R., & Bindemann, M. (6.1.2021). Rapid formation of stable face representations. Poster presented at *EPS: Online*.
- Prunty, J. E.,** Keemink, J. K. & Kelly, D. J. (21.9.2018). The differential processing of dynamic and static faces in infancy. Poster presented at *BASIS: Annual Meeting* and *ETADE: Brainview*, held in London, UK.
- Prunty, J. E.,** Keemink, J. K. & Kelly, D. J. (2.7.2018). Infant race preferences within a social interaction. Talk delivered at *International Congress of Infant Studies*, held in Philadelphia, USA.
- Prunty, J. E.,** Keemink, J. K. & Kelly, D. J. (26.6.2018). The processing of emotional facial expressions in infancy. Poster presented at *CogSoCoAge: Social Communication across the Lifespan*, held in Canterbury, UK.
- Prunty, J. E.,** Galimam, L. & Loveday, C. (5.12.2012). What can you get from a psychology degree? Talk delivered at *British Psychological Society: Psychology 4 Students*, held in London, UK.

## Teaching Experience

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- 2025 – 2026 **Faculty Member, *International Programme on AI Evaluation***
- 2025 – 2026 **Guest Lecturer, *University of Cambridge***
- 2021 – 2022 **Final Year Project Supervisor**
- 2016 – 2019 **Associate Lecturer, *University of Kent***

## Grants & Prizes

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- 07/2018 Research Top-up Fund, University of Kent (£250)
- 07/2017 Research Top-up Fund, University of Kent (£250)
- 09/2012 Academic Achievement Award, University of Westminster (£1000)
- 09/2011 Academic Achievement Award, University of Westminster (£1000)