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Employment

- 2021– Senior Research Fellow, Division of Psychiatry, Centre for Clinical Brain Sciences, University of Edinburgh
- 2017–2021 Data Scientist, Division of Psychiatry, Centre for Clinical Brain Sciences, University of Edinburgh
- 2006–2007 Laboratory Technician, Drosophila Genetic Resource Center, Kyoto Institute of Technology

Education & Training

- 2015–2017 Post-doctoral Research Fellow, Division of Psychiatry, Centre for Clinical Brain Sciences, University of Edinburgh
- 2012–2015 Post-doctoral Research Associate, Department of Animal and Plant Sciences, University of Sheffield
- 2008–2012 PhD Psychology, University of Edinburgh
- 2007–2008 MSc Quantitative Genetics & Genome Analysis, University of Edinburgh
- 1999–2003 AB Theoretical Evolutionary Biology, Cornell University

External Roles

Psychiatric Genomics Consortium

- 2019– Open Science Maintainer
<https://github.com/psychiatric-genomics-consortium>
- 2017–2019 Data Access Committee Representative, Major Depressive Disorder Working Group

Publications

As Lead Author

Studies designed and lead.

Adams, M. J., Streit, F., Meng, X., Awasthi, S., Adey, B. N., Choi, K. W., Chundru, V. K., Coleman, J. R. I., Ferwerda, B., Foo, J. C., Gerring, Z. F., Giannakopoulou, O., Gupta, P., Hall, A. S. M., Harder, A., Howard, D. M., Hübel, C., Kwong, A. S. F., Levey, D. F., . . . McIntosh, A. M. (2025). Trans-ancestry genome-wide study of depression identifies 697 associations implicating cell types and pharmacotherapies. *Cell*. <https://doi.org/10.1016/j.cell.2024.12.002>

Adams, M. J., Thorp, J. G., Jermy, B. S., Kwong, A. S. F., Kõiv, K., Grotzinger, A. D., Nivard, M. G., Marshall, S., Milaneschi, Y., Baune, B. T., & et al. (2024). Genome-wide meta-analysis of ascertainment and symptom structures of major depression in case-enriched and community cohorts. *Psychological Medicine*, *54*(12), 3459–3468. <https://doi.org/10.1017/S0033291724001880>

Adams, M., Hill, W., Howard, D., Dashti, H., Davis, K., Campbell, A., Clarke, T.-K., Deary, I., Hayward, C., Porteous, D., Hotopf, M., & McIntosh, A. (2019). Factors associated with sharing e-mail information and mental health survey participation in large population cohorts. *International Journal of Epidemiology*. <https://doi.org/10.1093/ije/dyz134>

Adams, M., Howard, D., Luciano, M., Clarke, T.-K., Davies, G., Hill, W., Smith, D., Deary, I., Porteous, D., McIntosh, A., 23andMe Research Team, & Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium. (2019). Genetic stratification of depression by neuroticism: Revisiting a diagnostic tradition. *Psychological Medicine*, 1–10. <https://doi.org/10.1017/S0033291719002629>

Arden, R., & Adams, M. (2016). A general intelligence factor in dogs. *Intelligence*, *55*, 79–85. <https://doi.org/10.1016/j.intell.2016.01.008>

Adams, M., Bonaventura, M., Ostner, J., Schulke, O., De Marco, A., Thierry, B., Engelhardt, A., Widdig, A., Gerald, M., & Weiss, A. (2015). Personality structure and social style in macaques. *Journal of Personality and Social Psychology*, *109*(2), 338–353. <https://doi.org/10.1037/pspp0000041>

Adams, M., Robinson, M., Mannarelli, M., & Hatchwell, B. (2015a). Social genetic and social environment effects on parental and helper care in a cooperatively breeding bird. *Proceedings of the Royal Society B-Biological Sciences*, *282*(1810). <https://doi.org/10.1098/rspb.2015.0689>

Adams, M. (2014). Feasibility and uncertainty in behavior genetics for the nonhuman primate. *International Journal of Primatology*, *35*(1), 156–168. <https://doi.org/10.1007/s10764-013-9722-8>

Hatchwell, B., Gullett, P., & Adams, M. (2014). Helping in cooperatively breeding long-tailed tits: A test of Hamilton’s rule. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *369*(1642). <https://doi.org/10.1098/rstb.2013.0565>

Adams, M., King, J., & Weiss, A. (2012). The majority of genetic variation in orangutan personality and subjective well-being is nonadditive. *Behavior Genetics*, *42*, 675–686. <https://doi.org/10.1007/s10519-012-9537-y>

Reviews & Commentary

Adams, M. J. (2023). Leveraging family relatedness to detect participation bias in genetic studies. *Nature Genetics*. <https://doi.org/10.1038/s41588-023-01440-9>

Arden, R., Bensky, M., & Adams, M. (2016). A review of cognitive abilities in dogs, 1911 through 2016: More individual differences, please! *Current Directions in Psychological Science*, 25(5), 307–312. <https://doi.org/10.1177/0963721416667718>

As Main Author

Provided primary data, analysis, and design.

Grimes, P. Z., Adams, M. J., Thng, G., Edmonson-Stait, A. J., Lu, Y., McIntosh, A., Cullen, B., Larsson, H., Whalley, H. C., & Kwong, A. S. F. (2024). Genetic Architectures of Adolescent Depression Trajectories in 2 Longitudinal Population Cohorts. *JAMA Psychiatry*. <https://doi.org/10.1001/jamapsychiatry.2024.0983>

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Yeung, H. W., Stolicyn, A., Shen, X., Adams, M. J., Romaniuk, L., Thng, G., Buchanan, C. R., Tucker-Drob, E. M., Bastin, M. E., McIntosh, A. M., Cox, S. R., Smith, K. M., & Whalley, H. C. (2024). Classification accuracy of structural and functional connectomes across different depressive phenotypes. *Imaging Neuroscience*, 2, 1–24. https://doi.org/10.1162/imag_a-00064

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Stolicyn, A., Lyall, L. M., Lyall, D. M., Høier, N. K., Adams, M. J., Shen, X., Cole, J. H., McIntosh, A. M., Whalley, H. C., & Smith, D. J. (2023). Comprehensive assessment of sleep duration, insomnia, and brain structure within the UK Biobank cohort. *Sleep*, 47(2), zsad274. <https://doi.org/10.1093/sleep/zsad274>

Wang, X., Walker, A., Revez, J. A., Ni, G., Adams, M. J., McIntosh, A. M., Wray, N. R., Ripke, S., Mattheisen, M., Trzaskowski, M., Byrne, E. M., Abdellaoui, A., Adams, M. J., Agerbo, E., Air, T. M., Andlauer, T. F. M., Bacanu, S.-A., Bækvad-Hansen, M., Beekman, A. T. F., ... Wray, N. R. (2023). Polygenic risk prediction: Why and when out-of-sample prediction R^2 can exceed snp-based heritability. *The American Journal of Human Genetics*, 110(7), 1207–1215. <https://doi.org/10.1016/j.ajhg.2023.06.006>
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methylation scores in the prediction of major depressive disorder. *eBioMedicine*, 79, 104000. <https://doi.org/10.1016/j.ebiom.2022.104000>

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Johnston, K., Ward, J., Ray, P., Adams, M., McIntosh, A., Smith, B., Strawbridge, R., Price, T., Smith, D., Nicholl, B., Bailey, M., & Epstein, M. (2021). Sex-stratified genome-wide association study of multisite chronic pain in UK Biobank. *PLoS Genetics*, 17(4), e1009428. <https://doi.org/10.1371/journal.pgen.1009428>

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sample (the ABCD study®). *EClinicalMedicine*, 42. <https://doi.org/10.1016/j.eclinm.2021.101204>

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de Nooij, L., Harris, M., Adams, M., Clarke, T.-K., Shen, X., Cox, S., McIntosh, A., & Whalley, H. (2020). Cognitive functioning and lifetime major depressive disorder in UK Biobank. *European Psychiatry*, 63(1). <https://doi.org/10.1192/j.eurpsy.2020.24>

Green, C., Shen, X., Stevenson, A., Conole, E., Harris, M., Barbu, M., Hawkins, E., Adams, M., Hillary, R., Lawrie, S., Evans, K., Walker, R., Morris, S., Porteous, D., Wardlaw, J., Douglas Steele, J., Waiter, G., Sandu, A.-L., Campbell, A., . . . Whalley, H. (2020). Structural brain correlates of serum and epigenetic markers of inflammation in major depressive disorder. *Brain, Behavior, and Immunity*. <https://doi.org/10.1016/j.bbi.2020.11.024>

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Meng, W., Adams, M., Reel, P., Rajendrakumar, A., Huang, Y., Deary, I., Palmer, C., McIntosh, A., & Smith, B. (2020). Genetic correlations between pain phenotypes and depression and neuroticism. *European Journal of Human Genetics*, 28, 358–366. <https://doi.org/10.1038/s41431-019-0530-2>

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Contributed data to secondary analysis or as a consortium member.

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Marioni, R., Ritchie, S., Joshi, P., Hagenaars, S., Okbay, A., Fischer, K., Adams, M., Hill, W., Davies, G., Nagy, R., Amador, C., Läll, K., Metspalu, A., Liewald, D., Campbell, A., Wilson, J., Hayward, C., Esko, T., Porteous, D., . . . Gale, C. (2016). Genetic variants linked to education predict longevity. *Proceedings of the National Academy of Sciences*, *113*(47), 13366–13371. <https://doi.org/10.1073/pnas.1605334113>

Book Chapters

Weiss, A., & Adams, M. (2013). Differential behavioral ecology. In C. Carere & D. Maestripieri (Eds.), *Animal personalities: Behavior, physiology, and evolution* (pp. 94–123). The University of Chicago Press.

Adams, M. (2011). Evolutionary genetics of personality in nonhuman primates. In M. Inoue-Murayama, A. Weiss, & S. Kawamura (Eds.), *From genes to animal behavior: Social structures, personality, communication by color* (pp. 137–164). Springer. https://doi.org/10.1007/978-4-431-53892-9_6

Weiss, A., & Adams, M. (2010, January). Personality, temperament, and behavioral syndromes. In G. Koob, M. Le Moal, & R. Thompson (Eds.), *Encyclopedia of behavioral neuroscience* (3rd ed., pp. 47–53). Elsevier. <https://doi.org/10.1016/B978-0-08-045396-5.00117-2>

Invited talks

- | | |
|------|---|
| 2019 | College of Medicine, University of Malawi |
| 2014 | Institute of Psychiatry, King's College London
Department of Psychology, University of Sheffield
Department of Psychology, University of York |
| 2013 | German Primate Center. Göttingen |

Teaching

Undergraduate

Genetic and Environmental Influences on Behaviour and Mental Health
Data Science for Health and Biomedical Sciences
Medical Science 4 seminar on “Psychiatric Genetics”

Psychology 2 Practical Course (tutor)
Psychology 3 Methods (tutor)

Postgraduate

Univariate and Multivariate Statistics with R

Workshops

GenomicSEM Module, International Statistical Genetics Workshop

Supervision

Doctoral students

2021	Keira Johnston, Precision Medicine
2023	Melissa Lewins, Precision Medicine

MSc & Honours Students

U of Edinburgh	Quantitative Genetics & Genome Analysis Biomedical Artificial Intelligence Integrative Neuroscience Biomedical Sciences and Medical Sciences
U of Sheffield	Sheffield Undergraduate Research Experience

Grants

2021–2024	Medical Research Council. <i>DATAMIND: Data Hub for Mental health Informatics research Development</i> . (2021–2024) £225,575. (Co-I)
2014	Wellcome Trust. <i>Inferring genetic architecture from high-density genomic data</i> . £2000 (Co-I)
2010	Moray Endowment Fund Award. <i>Selection on human personality</i> . £2280.
2009	Sasakawa Foundation. <i>Personality in Japanese macaques</i> . £1000.

Awards

2012	Fulker Award, Behavior Genetics Association (<i>Given to a paper of unusual merit that appeared in the most recent volume of Behavior Genetics</i>)
2008	Sir Kenneth Mather Memorial Prize, Genetics Society. (<i>Outstanding performance in the area of quantitative genetics.</i>)

Knowledge Exchange

- 2021 Evidence Submitted to Cross Party Group – Mental Health, Scottish Parliament
Depression Detectives, online participant-led research forum.
- 2020 Consultation on Digital Strategy for Scotland, Scottish Government
NHS Research Scotland Mental Health Annual Scientific Meeting

Consulting & Industry Collaborations

23andMe
Baillie Gifford

Open Science

Code repositories

- Personal <https://github.com/mja>
Group <https://github.com/ccbs-stradl>
Consortium <https://github.com/psychiatric-genomics-consortium>

Datasets

- Wigmore, E., Hafferty, J., Hall, L., Howard, D., Clarke, T.-K., Fabbri, C., Lewis, C., Uher, R., Navrady, L., Adams, M., Zeng, Y., Campbell, A., Gibson, J., Thomson, P., Hayward, C., Smith, B., Hocking, L., Padmanabhan, S., Deary, I., ... McIntosh, A. (2020). Genome-wide association summary statistics of antidepressant treatment resistance meta-analysis, [dataset]. <https://doi.org/10.7488/ds/2791>
- Adams, M., McIntosh, A., Campbell, A., Dashti, H., Hill, W. D., Howard, D., Davis, K., Clarke, T.-K., Deary, I., Hayward, C., Porteous, D., & Hotopf, M. (2019). Factors associated with sharing email information and mental health survey participation in large population cohorts, 2006-2017 [dataset]. <https://doi.org/10.7488/ds/2554>
- Howard, D., Adams, M., Clarke, T.-K., Hafferty, J., Gibson, J., Shirali, M., Coleman, J., Ward, J., Wigmore, E., Alloza, C., Shen, X., Barbu, M., Xu, E., Whalley, H., Marioni, R., Porteous, D., Davies, G., Deary, I., Hemani, G., ... McIntosh, A. (2019). Genome-wide meta-analysis of depression identifies 102 independent variants and highlights the importance of the prefrontal brain regions, [dataset]. <https://doi.org/10.7488/ds/2458>
- Howard, D., Adams, M., Shirali, M., Clarke, T.-K., Marioni, R., Davies, G., Coleman, J., Alloza, C., Shen, X., Barbu, M., Wigmore, E., Gibson, J., 23andMe Research Team, Hagenaars, S., Lewis, C., Ward, J., Smith, D., Sullivan, P., Haley, C., ... McIntosh, A. (2018a). Summary statistics for three depression phenotypes in UK Biobank, [dataset]. <https://doi.org/10.7488/ds/2350>
- Adams, M. J., Robinson, M. R., Mannarelli, M.-E., & Hatchwell, B. (2015b). Data from: Social genetic and social environment effects on parental and helper care in a cooperatively breeding bird. <https://doi.org/10.5061/dryad.9nj6s>

Journals

Editorial Boards

2014–2016

Frontiers in Evolutionary and Population Genetics

Reviewer

American Journal of Primatology, Animal Behaviour, BJPsychOpen, Behavioral Ecology and Sociobiology, Biological Psychiatry, Evolution, Intelligence, International Journal of Primatology, JAMA Psychiatry, Journal of Comparative Psychology, Journal of Research in Personality, Journal of the American Academy of Child and Adolescent Psychiatry, Lancet Psychiatry, Molecular Psychiatry, Proceedings of the Royal Society B, Psychological Science,