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## Education

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**University of Bristol** 2016 – 2021

PhD Wellcome Trust Neural Dynamics Programme

Supervisors: Professors Emma Robinson, Conor Houghton, Ian Penton-Voak and Marcus Munafò.

**University of Nottingham** 2015 – 2016

MRes Mental Health Research: Distinction

**University of Durham** 2012 – 2015

BSc (Hons) Psychology: First Class Honours

## Post Doctoral Training

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**University of Bristol** 2022 – Present

**Senior Research Associate in Genetic Epidemiology**

MRC Integrative Epidemiology Unit, Immunopsychiatry Programme.

Supervisor: Professor Golam Khandaker

Project: Identify biological pathways impacting cognition at different ages in the lifespan using population-based cohorts (e.g., Lifelines, UK Biobank) and omics data (genomics, proteomics, transcriptomics).

**University of Bristol** 2021 – 2022

**Research Associate in Genetic Epidemiology**

MRC Integrative Epidemiology Unit

Supervisors: Professors Golam Khandaker and George Davey Smith

Project: Testing causality between immune proteins and cognition using ALSPAC data.

## Research Skills and Experience

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- **Programming skills:** R and STATA (postdoctoral experience), Python and JavaScript (PhD)
- **Statistical genetics:** GWAS, meta-analysis, GWAS annotation (e.g., FUMA), Mendelian randomization (summary and individual level), genetic correlations, genetic risk scores, adjustments for relatedness (e.g., GRAMMAR method via GREML, KING to identify genetic relatedness), multiple imputation to address missing data.
- **Population-based cohort data:** analysing cohort data (Lifelines, UK Biobank, ALSPAC).
- **Public and patient involvement in research:** workshops/focus groups within and outside UK.
- **Clinical human experiments** (e.g., ethics applications, interviewing, coding experiments, EEG).
- **Open science:** pre-registrations ([osf.io/npeja](https://osf.io/npeja)), preprints, code ([chloeslaney \(chloeslaney\) / Repositories · GitHub](https://github.com/chloeslaney)) and datasets (<https://doi.org/10.5523/bris.1wlrhv4jzqs7q2egf8i7ruzta1>).

## Conference Talks

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- **Mendelian Randomization Conference 2024:** Role of inflammation in depressive and anxiety disorders, affect, and cognition: genetic and non-genetic findings in the Lifelines Cohort Study.
- **International Society of Psychoneuroendocrinology 2023 [Invited Speaker]:** Understanding the Causal Relationship Between Inflammation and Cognition: Data from Randomized Controlled Trials, Mendelian Randomization, and Observational Studies.

## Publications

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**Slaney, C., & Davey Smith, G.** (2025). Genetically informed study shows maternal alcohol use in pregnancy may lead to serious sequelae in offspring in East Asia. *Alcohol: Clinical and Experimental Research*, 00, 1-5. DOI: <https://doi.org/10.1111/acer.70070>

**Slaney, C., Mac Giollabhui, N., van der Most, P. J., Palacios, E. R., Snieder, H., Nivard, M., Hemani, G., Hartman, C. A., Khandaker, G. M.** (2025). Positive and negative affect, related mental health traits, and cognitive performance: shared genetic architecture and potential causality. *Submitted to Elife. MedRxiv*: <https://doi.org/10.1101/2024.11.01.24316562>

Mac Giollabhui, N.\*, **Slaney, C.\***, Hemani, G., Foley, E. M., van der Most, P. J., Nolte, I.M., Snieder, H., Davey Smith, G., Khandaker, G., & Hartman, C. (2025). Role of Inflammation in Depressive and Anxiety Disorders, Affect, and Cognition: Genetic and Non-Genetic Findings in the Lifelines Cohort Study. *Translational Psychiatry*. DOI: <https://doi.org/10.1038/s41398-025-03372-w>

**\*Joint First Author. I conducted all genetic analyses; contributed to study design and write-up.**

Palacios, E.R., Shapland, C.Y., Wolf, L.J., Nordestgaard, L.T., Anderson, E., **Slaney, C.**, Bernie, D., Mitchell, D., Kehoe, P.G., Griffith, G.J. and Tilling, K., 2025. Dissecting the effect of long-term exposure to air pollution on risk of dementia in UK Biobank. *Submitted to Environmental Health. MedRxiv*: <https://doi.org/10.1101/2025.06.18.25329828>

Foley, É. M., **Slaney, C.**, Donnelly, N. A., Kaser, M., Ziegler, L., & Khandaker, G. M. (2024). A novel biomarker of interleukin 6 activity and clinical and cognitive outcomes in depression. *Psychoneuroendocrinology*, 164, 107008. DOI: <https://doi.org/10.1016/j.psyneuen.2024.107008>

**Slaney, C.**, Sallis, H. M., Jones, H. J., Dardani, C., Tilling, K., Munafò, M. R., ... & Charge Inflammation Working Group. (2023). Association between inflammation and cognition: triangulation of evidence using a population-based cohort and Mendelian randomization analyses. *Brain, behavior, and immunity*, 110, 30-42. DOI: <https://doi.org/10.1016/j.bbi.2023.02.010>

**Slaney, C.**, Perkins, A. M., Davis, R., Penton-Voak, I., Munafò, M. R., Houghton, C. J., & Robinson, E. S. (2023). Objective measures of reward sensitivity and motivation in people with high v. low anhedonia. *Psychological medicine*, 53(10), 4324-4332. DOI: <https://doi.org/10.1017/S0033291722001052>

Wilkinson, M. P., **Slaney, C. L.**, Mellor, J. R., & Robinson, E. S. J. (2021). Investigation of reward learning and feedback sensitivity in non-clinical participants with a history of early life stress. *PLoS One*, 16(12), e0260444. DOI: <https://doi.org/10.1371/journal.pone.0260444>.

**Slaney, C. L.**, Hales, C. A., & Robinson, E. S. (2018). Rat models of reward deficits in psychiatric disorders. *Current Opinion in Behavioral Sciences*, 22, 136-142. DOI: <https://doi.org/10.1016/j.cobeha.2018.05.001>

**Slaney, C.**, Hinchcliffe, J. K., & Robinson, E. S. (2018). Translational shifts in preclinical models of depression: implications for biomarkers for improved treatments. In *Biomarkers in Psychiatry* (pp. 169-193). Springer, Cham. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7614182/pdf/EMS164626.pdf>

## Conference Poster Presentations

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**Slaney, C.**, Mac Giollabhui, N., van der Most, P. J., Palacios, E. R., Snieder, H., Nivard, M., Hemani, G., Hartman, C. A., Khandaker, G. M. (2025) Positive and negative affect, related mental health traits,

and cognitive performance: shared genetic architecture and potential causality. *European Human Genetics Conference*.

**Slaney, C.**, Sallis, H. M., Jones, H., Dardani, C., CHARGE Inflammation Working Group, Tilling, K., Munafò, M. R., Davey Smith, G., Mahedy, L., & Khandaker, G. M. (2022). Association between inflammation and cognitive functioning: Findings from a population-based cohort and Mendelian randomization analyses. *World Congress for Psychiatric Genetics*.

**Slaney C**, Houghton, C. J., Penton-Voak, I., Munafò, M., & Robinson, E. S. J. (2019). Reward sensitivity and motivation in healthy volunteers with high vs low trait anhedonia. *Society for Neuroscience*

**Slaney C**, Houghton, C. J., Penton-Voak, I., Munafò, M., & Robinson, E. S. J. (2018). Validating an objective measure of motivation for reward using a Joystick-Operated Runway Task. *Journal of Psychopharmacology*.

## **Mentoring**

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Sally Turner (2021-2023) MRes Student; Current Position: PhD Student (University of Bath, UK)

## **Achievements and Scholarships**

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Early Career Investigator Program - Poster Presentation Finalist	2022
Discipline Hopping Fellowship, Elizabeth Blackwell Institute	2020
Best First Year PhD Talk, School of Physiology, Pharmacology and Neuroscience	2018
Wellcome Trust PhD Studentship	2016
Masters Scholarship Scheme, University of Nottingham	2015
50% Fees Scholarship: Merit based award, School of Medicine, University of Nottingham	2015
John Norton Prize for excellence in examinations, St. Cuthbert's, University of Durham	2013