



# Gabriel-Mateus Bernardo Harrington

RESEARCH ASSOCIATE

School of Medicine, Dementia Research Institute

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*Experienced and motivated scientist with a strong publication track record. My multidisciplinary skills in both informatics and bench work gives me a unique perspective and has made me highly adaptable.*

## Professional Overview

Experienced bioinformatician with a strong track record in the field of spinal cord injury and Alzheimer's disease. Extremely adaptable with a highly interdisciplinary background of bench work, proteomics, genomics and bioinformatics. Accomplished in working with diverse teams, including clinical and patient-facing settings. My leadership with informatic colleagues in working more cohesively and reproducibly by promoting the use of version control, containerisation and continuous integrations has streamlined our projects, reduced errors and improved quality. Related experience in training colleagues in the use of tools such as Git, GitHub/GitLab, R Markdown/Quarto and Docker.

## Education

### Keele University

PHD IN BIOMEDICAL ENGINEERING

Keele

2018 - 2021

### Lancaster University

BSc (HONS) - BIOLOGICAL SCIENCES - 2:1

Lancaster

2013 - 2016

## Awards

### DEMON network

NEUROHACK 2022 - WINNING TEAM

London

2022

### Race Against Dementia

DEMENTIA RESEARCH MEETS MOTORSPORTS INNOVATION ACCELERATOR - WINNING TEAM

Cranfield University

2021

## Funding

### EPSRC Centre for Doctoral Training in Regenerative Medicine

CDT CONSUMABLE GRANT

- £5000 awarded

Loughborough

2021

## Talks

### ISCoS 2021

PROTEOMIC AND BIOINFORMATICS ANALYSES OF PLASMA FROM SCI NEUROLOGICAL IMPROVERS AND NON-IMPROVERS

Oswestry

2021

### Centre for Doctoral Training Conference, 2021

REPRODUCIBLE DATA ANALYSIS

Virtual

2021

### Centre for Doctoral Training Conference, 2019

REPRODUCIBLE RESEARCH

Manchester

2019

## Skills

## Bioinformatics

PROTEOMICS, GENOMICS, HIGH PERFORMANCE CLUSTER COMPUTING, SLURM, ELECTRONIC HEALTH DATA

## Programming Languages

R, BASH, PYTHON, SQL, NEXTFLOW

## Wet Lab work

3D TISSUE CULTURE, MICROSCOPY, ANIMAL HANDLING, HISTOLOGY

## Markup Languages

MARKDOWN, RMARKDOWN/QUARTO, YAML, CSS, HTML, LATEX

## Version Control

GIT, GITHUB, GITLAB

## Language

PORTUGUESE

## Microsoft Office

EXCEL, OUTLOOK, ONENOTE, POWERPOINT, WORD

# Publications

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1. Bernardo Harrington, G. M., Cool, P., Hulme, C., Fisher-Stokes, J., Peffers, M., El Masri, W., Osman, A., Chowdhury, J. R., Kumar, N., Budithi, S., & Wright, K. (2022). *A comprehensive proteomic and bioinformatics analysis of human spinal cord injury plasma identifies proteins associated with the complement cascade and liver function as potential prognostic indicators of neurological outcome* [Preprint]. Bioinformatics. <https://doi.org/10.1101/2022.07.12.499696>
2. Bernardo Harrington, G. M., Cool, P., Hulme, C., Osman, A., Chowdhury, J., Kumar, N., Budithi, S., & Wright, K. (2020). Routinely measured haematological markers can help to predict AIS scores following spinal cord injury. *Journal of Neurotrauma*. <https://doi.org/10.1089/neu.2020.7144>
3. Brown, S. J., Harrington, G. M. B., Hulme, C. H., Morris, R., Bennett, A., Tsang, W.-H., Osman, A., Chowdhury, J., Kumar, N., & Wright, K. T. (2019). A preliminary cohort study assessing routine blood analyte levels and neurological outcome after spinal cord injury. *Journal of Neurotrauma*. <https://doi.org/10.1089/neu.2019.6495>
4. Hulme, C. H., Peffers, M. J., Harrington, G. M. B., Wilson, E., Perry, J., Roberts, S., Gallacher, P., Jermin, P., & Wright, K. T. (2021). Identification of Candidate Synovial Fluid Biomarkers for the Prediction of Patient Outcome After Microfracture or Osteotomy. *The American Journal of Sports Medicine*, 49(6), 1512–1523. <https://doi.org/10.1177/0363546521995565>