

Arthur Hughes

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 LinkedIn

Education

- 2023 –  **PhD in Biostatistics, University of Bordeaux, France**
Title: *Gene-set approaches for vaccine development : association, prediction, and surrogacy*
- 2022 – 2023  **MSc Public Health Data Science, University of Bordeaux, France**
Master thesis title: *Prediction of antibody response to Ebola vaccination with early gene expression.*
- 2018 – 2022  **MMath Master of Mathematics, University of Bath, United Kingdom**
Master thesis title: *Statistical Methods for Competing Risks Analysis.*

Research Publications

- 1 **A. Hughes**, L. Parast, R. Thiébaut, and B. P. Hejblum, “Rise: Two-stage rank-based identification of high-dimensional surrogate markers applied to vaccinology,” *Statistics in Medicine*, vol. 44, no. 20–22, Sep. 2025, ISSN: 1097-0258.  DOI: 10.1002/sim.70241

Skills

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| Languages |  English (native language) and French (professional working proficiency). |
| Coding |  R, Python, SQL, L ^A T _E X, ... |
| Misc. |  Statistics applied to complex biomedical data, multidisciplinary teaching and supervision, scientific presentation skills. |

Teaching and Training

- January 2026-  **Co-supervision of Master Thesis** : *Evaluation of approaches for identifying high-dimensional individual-level surrogate markers applied to vaccinology*
- January - July 2025  **Co-supervision of Master Thesis** : *Exploring gene expression as predictors, individual-level surrogates and trial-level surrogates of the antibody response to the trivalent influenza vaccine*
- September 2024 -  **Multidisciplinary teaching** : 30+ hours per year of teaching in the Public Health Data Science graduate program, University of Bordeaux, France. Courses on biostatistics, epidemiology, data science...

References

Available on Request