

# Arthur Hughes

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in LinkedIn

🌐 Website

## 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. Thiébaud, 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

- Languages **English** (native language) and **French** (professional working proficiency).
- Coding **R, Python, SQL, L<sup>A</sup>T<sub>E</sub>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