Dr. Nathan A. Judd

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Experience

Aug 2025 - Pre	Postdoctoral Scholar, Okinawa Institute of Science and Technology, Japan
Jul 2024 - Jul 2025	Research Fellow, University of Birmingham, UK
Jun 2021 - Jul 2022	Data Scientist, Store Performance Ltd., UK
Summer 2021	Research Assistant, University of Warwick, UK
2017-2024	Mathematics Tutor (Private), UK
Oct 2020 - Sep 2023	Graduate Teaching Assistant, University of Warwick, UK
Spring 2016	Academic Peer Mentor, University of Kent, UK

Education

2024	**PhD**, Statistics, University of Warwick
2019	**MSc**, Statistics, Lancaster University
2018	**BSc**, Mathematics, University of Kent

Publications

Google Scholar ORCiD GitHub LinkedIn

Published Articles

J1. **Judd**, **N. A.**, Mylona, K., Liu, H., Hogg, A. & Butler, T. Forecasting hourly foodservice sales during geopolitical and economical disruption using zero-inflated mixed effects models. *Journal of Applied Statistics* **53,** 372–390. eprint: https://doi.org/10.1080/02664763.2025.2519136. https://doi.org/10.1080/02664763.2025.2519136 (2026).

Preprint Articles

P1. **Judd**, **N. A.** & Esposito, A. R. *On the Impossibility of Estimating the Average Mixing Time* Submitted. Oct. 2026. arXiv: 2610.10860 [math.ST]. https://arxiv.org/abs/2610.10860.

P2. **Judd**, **N. A.** & Spanò, D. *Subordinated Wright-Fisher Priors.* Major revision invited. Apr. 2026. arXiv: 2604.11363 [math.ST]. https://arxiv.org/abs/2604.11363.

P3. Marsh, J., **Judd**, **N. A.**, Chan, L. & Seymour, R. G. *Neural Methods for Multiple Systems Estimation Models.* Under review at Sociological Methods and Research (major revision invited). Jan. 2026. arXiv: 2601.05859 [stat.AP]. https://arxiv.org/abs/2601.05859.

P4. **Judd**, **N. A.**, Tansell, A. V., Costello, B., Leonard, L., Woodhams, J. & Seymour, R. G. *Statistical Crime Linkage: Evaluating approaches within the Covenant for Using AI in Policing.* Statistics & Public Policy (minor revision invited). Oct. 2025. arXiv: 2510.03730 [stat.AP]. https://arxiv.org/abs/2510.03730.

Working papers

W1. **Judd**, **N. A.** & Spanò, D. *Probabilistic representations of non-local Wright-Fisher processes.* In preparation.

Other Fields

O1. Cockburn, **N.**, Singh, M., Wambua, S., Gonzalez-Izquierdo, A., Lee, S. I., Phillips, K., Elsmore, A., Ilaalagan, R., Holland, R., Hanley, S. J., Laws, E., Hodgetts-Morton, V., Gibbon, M., **Judd**, **N. A.**, Seymour, R. G., Taylor, B., Chandan, J. S., Parry-Smith, W. & Nirantharakumar, K. Ethnic and Socioeconomic variation in maternal long-term conditions pre-conception: a cross-sectional electronic health record study of burden of disease. *Submitted to The Lancet Public Health.* eprint: https://dx.doi.org/10.2139/ssrn.5103707. https://dx.doi.org/10.2139/ssrn.5103707 (2025).

Teaching and Mentoring

Supervision

2024 – 2025	Co-supervisor	Antsha Oleyede, University of Birmingham, MSci Final Year Dissertation.

Teaching

University of Warwick

2020-2021	Mathematical Methods (ST208) and Mathematical Statistics (ST218). Utilised Moodle and Canvas.
2022–2023	Managed assessment and moderation for cohorts of around 80 students in Generalised Linear Models Generalised Linear Models for Regression and Classification (ST346) and Multivariate Statistics (ST323).

Academic Service

Reviewed journal articles for The Lancet Microbe (7), The Lancet Regional Health - Americas (2), and E-clinical Medicine (1).
I chaired an invited speaker's (Andre Wibisono) lecture session at the conference Information Theory in Modern Science 2026.

Impact & Awards

2025	My research from Birmingham was referenced in the Independent anti-slavery commissioner's report.

2021 My statistical significance analysis led to the successful award of an Athena Swan Silver Award and a Racial Equality Charter Bronze Award.

Other Experience

2021 – 2022	Data Scientist, Store Performance Ltd, United Kingdom, UK
2017-2024	Mathematics Tutor (Private), United Kingdom, UK
2020 - 2021	Graduate Teaching Assistant, University of Warwick, UK
2017-2018	Catering Assistant, Kent Hospitality, UK
2016	Academic Peer Mentor, University of Kent, UK
2015	Code Controller, Sainsbury's, UK
2014 - 2015	Crew Member, McDonald's, UK

Extra

Personal: British Judo Council under 73kg Orange-Green Belt 2023 Bronze Medallist.

References

Dr. Amedeo Roberto Esposito, Okinawa Institute of Science and Technology, Okinawa, Japan, email: amedeo.esposito@oist.jp
Dr. Rowland Seymour, Department of Mathematics, University of Birmingham, Edgbaston, Birmingham, B15 2TT, United Kingdom, e-mail: r.g.seymour@bham.ac.uk
Dr. Dario Spanò, University of Warwick, Department of Statistics, Coventry, CV4 7AL, United Kingdom, e-mail: d.spano@warwick.ac.uk
Dr. Zorana Lazic (teaching), University of Warwick, Department of Statistics, Coventry, CV4 7AL, United Kingdom, e-mail: z.lazic@warwick.ac.uk
Dr. Pierre Patie, Cornell University, School of ORIE, Ithaca, NY 14853, United States, e-mail: pp396@cornell.edu
Dr. Massimiliano Tamborrino, University of Warwick, Department of Statistics, Coventry, CV4 7AL, United Kingdom, e-mail: massimiliano.tamborrino@warwick.ac.uk
Andy Hogg (industry), Store Performance Ltd, andy@store-performance.com

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