Curriculum Vitae—Charlotte M. Jones-Todd

Personal Details

Position: Lecturer

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Education

_	PhD in statistics	Scotland, UK
•	University of St Andrews	2013–2017
•	MSc in statistics dissertation distinction University of St Andrews	Scotland, UK 2012–2013
•	BSc (Hons) in mathematics first class Aberystwyth University	Wales, UK 2009–2012

Employment

Department of Statistics, University of Auckland Lecturer	Auckland, NZ 07/2019–present
National Institute of Water and Atmospheric Research Statistician	Hamilton, NZ 01/2018–07/2019
• University of St Andrews • Consultant, School of Mathematics and Statistics & Sea Mammal Research Unit	Scotland, UK 02/2017–12/2017
• University of Auckland • Consultant, School of Epidemiology & Biostatistics	Auckland, NZ 02/2017–05/2017
• University of St Andrews Tutor, School of Mathematics and Statistics	Scotland, UK 2014–2016
• University of St Andrews Tutor, Centre for Academic, Professional and Organisational Development	Scotland, UK 2014–2016
John Downes Veterinary Surgery Veterinary Assistant, Receptionist	Wales, UK 2007–2012

Scholarships and Awards

Scholarships and Awards		
• Statistical Excellence Award for Early-Career Writing—Finalist Royal Statistical Society	2017	
RSS 2015 Challenge—Finalist Royal Statistical Society	2015	
• School of Mathematics and Statistics PhD Scholarship University of St Andrews	2013–2016	
• EPSRC MSc Scholarship University of St Andrews	2012	
Pennington Prize for Pure Mathematics Aberystwyth University	2012	

Publications

Published

Jones-Todd, C. M., Pirotta, E., Durban, J., Claridge, D., Baird, R., Falcone, E., Schorr, G., Watwood, S., & Thomas, L. **(Under review)** Continuous-time discrete-space models of marine mammal exposure to Navy sonar.

Semadeni-Davies, A., **Jones-Todd, C. M.**, Elliott, A., Shankar, U., Tanner, C., Srinivasan, MS., & Muirhead, R. (2020) CLUES model calibration and its implications for estimating contaminant attenuation. Agricultural Water Management, 228, 105853.

Semadeni-Davies, A., **Jones-Todd, C. M.**, Srinivasan, MS., Muirhead, R., Elliott, A., Shankar, U., & Tanner, C. (2020) CLUES model calibration: residual analysis to investigate potential sources of model error. New Zealand Journal of Agricultural Research, 1–24.

Soranio-Redondo, A., **Jones-Todd, C. M.**, Bearhop, S., Hilton, G. M., Lock, L., Stanbury, A., Votier, S. C., & Illian, J. B. (2019) Understanding species distribution in dynamic populations: a new approach using spatio-temporal point process models. *Ecography*, 42 (6), 1092–1102.

Jones-Todd, C. M., Caie, P., Illian, J. B., Stevenson, B. C., Savage, A., Harrison D, J., & Bown, J. (2019) Identifying prognostic structural features in tissue sections of colon cancer patients using point pattern analysis. *Statistics in Medicine*, 38 (8), 1421–1441.

Python, A., Illian, J. B., **Jones-Todd, C. M.**, & Blángiardo, M. A Bayesian approach to modelling subnational spatial dynamics of worldwide non-state terrorism, 2010–2016. (2019) *Journal of the Royal Statistical Society, Series A (Statistics in Society)*, 182 (1), 323–344.

Kool, B., Buller, S., Kuriyan, R., **Jones-Todd, C. M.**, Newcombe, D., & Jones, P. (2018) Alcohol and injury among attendees at a busy inner city New Zealand emergency department. *Injury*, 49 (4), 798–805.

Jones-Todd, C. M., Swallow, B., Illian, J. B., & Toms, M. (2018) A spatio-temporal multi-species model of a semi-continuous response. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 67 (3), 705–722.

Python, A., Illian, J. B., **Jones-Todd, C. M.**, & Blángiardo, M. (2016) Explaining the lethality of Boko Haram's terrorist attacks in Nigeria, 2009-2014: A hierarchical Bayesian approach. *Bayesian Statistics in Action: BAYSM* 2016, 231–239.

Other reports.....

Reports

Python, A., Illian, J. B., **Jones-Todd, C. M.**, & Blángiardo, M. Statistics and Terrorism: Insights on terrorism lethality from Bayesian modeling. *Wiley StatsRef-Statistics Reference Online*. July 2020.

Dudley, B., & Jones-Todd, C. M. New Zealand coastal water quality assessment update. Ministry for the Environment. May 2018.

Graham, E., **Jones-Todd, C. M.**, Wadhwa, S., & Storey, R. Analysis of stream responses to riparian management on the Taranaki ring plain. Taranaki Regional Council. March 2018.

Magazine Articles

Jones-Todd, C. M. A time to kill: Great British serial killers. Significance Online.

Python, A., Illian, J. B., Jones-Todd, C. M., & Blángiardo, M. The Deadly Facets of Terrorism. Significance

Service

- Member of the International Statistical Ecology Conference (ISEC) 2020 local organising committee.
- Department of Statistics, University of Auckland
 - Chair of the Christmas function organising committee, 2020
 - Department of Statistics working from home committee
 - Department of Statistics sustainability working group coordinator
 - Member of the Faculty of Science sustainability committee
 - Ecological statistics group coordinator
- Judge at the Waikato Science and Technology Fair 2018

Other Service

- Associate Editor
 - Journal of Statistical Theory and Practice
- Conference session chair
 - virtual International Statistical Ecology Conference (vISEC), July 2020.
 - Statistics in Ecology and Environmental Monitoring (SEEM) Conference, December 2019.
- Student paper judge
 - virtual International Statistical Ecology Conference (vISEC), July 2020.
- Manuscript reviewing
 - Methods in Ecology and Evolution
 - Spatial Statistics
 - Journal of Peace Research
 - Advances in Statistical Analysis
 - Scientific Reports
 - Ecology
 - Journal of the Royal Statistical Society, Series C
 - *Ecology and Evolution*
 - Ecological Research
- Interview panel member

Centre for Academic, Professional and Organisational Development (CAPOD).

Technical Skills

Advanced user of: R, Git, Bash, LATEX, C++, HTML, CSS, Python

Memberships

- New Zealand Statistical Association (NZSA)
- International Biometric Society (IBS), Australasian Region