Curriculum Vitae—Charlotte M. Jones-Todd

Personal Details

Position: Lecturer

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Education

PhD in statistics University of St Andrews	Scotland, UK 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

•	National Institute of Water and Atmospheric Research Statistician	Hamilton, NZ 01/2018–present
•	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		
• 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

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

Semadeni-Davies, A., **Jones-Todd, C. M.**, Elliott, A., Shankar, U., Tanner, C., Srinivasan, MS., & Muirhead, R. (2019) CLUES model calibration and its implications for estimating contaminant attenuation. Agricultural Water Management, 105853.

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. (**In press**). Statistics and Terrorism: Insights on terrorism lethality from Bayesian modeling. *Wiley StatsRef-Statistics Reference Online*.

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

- Team member of Auckland Transport (AT) walk to school day: CO2 data gathering schools project
- Department of statistics, University of Auckland
 - 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

- Conference session chair
 - Statistics in Ecology and Environmental Monitoring (SEEM) Conference, December 2019.
- Manuscript reviewing
 - 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