Curriculum Vitae—Charlotte M. Jones-Todd

Personal Details

Position: Statistician

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Education

•	PhD in statistics University of St Andrews	Scotland, UK 2013–2017
•	MSc in statistics <i>dissertation distinction University of St Andrews</i>	Scotland, UK 2012–2013
•	BSc Hons mathematics first class Aberystwyth University	Wales, UK 2009–2012

Employment

	National Institute of Water and Atmospheric Research	
•	Statistician	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 PhD Scholarship University of St Andrews	2013–2016
•	EPSRC MSc Scholarship University of St Andrews	2012

Publications

Published

Jones-Todd, C. M., Caie, P., Illian, J. B., Stevenson, B. C., Savage, A., Harrison D, J., & Bown, J. (In press) Identifying prognostic structural features in tissue sections of colon cancer patients using point pattern analysis. *Statistics in Medicine*, DOI:10.1002/sim.8046.

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

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.

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.

Under review after revision

Soranio-Redondo, A., **Jones-Todd, C. M.**, Bearhop, S., Hilton, G. M., Lock, L., Stanbury, A., Votier, S. C., & Illian, J. B. Estimating species distribution in dynamic populations using point process models: a case study in the Eurasian crane and perspectives in ecology. *Ecography*.

In preparation

Jones-Todd, C. M., Illian, J. B., & Marques, T. Applications of a joint marked point process spatio-temporal model. In preparation for submission to *Spatial Statistics*.

Stevenson, B. C., Borchers, D. L., **Jones-Todd, C. M.**, & Kidney, D. ascr: an R package for the analysis of spatial capture-recapture data. In preparation for submission to *Ecography*.

Jones-Todd, C. M., Pirotta, E., & Thomas, L. Continuous-time discrete-space models of marine mammal exposure to Navy sonar. In preparation for submission to *Ecological Modelling*.

Other reports	 	 	 	 	
Reports					

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

Submitted to Significance

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

Technical Skills

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

Professional Service

- Manuscript reviewing
 - 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).

• Judge Waikato Science and Technology Fair 2018

References

Dr Janine B. Illian

Senior Lecturer

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