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 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 Ats Statistician	mospheric Research	Hamilton, NZ 01/2018–present
• University of St Andrews Consultant, School of Mathematics and	l Statistics & Sea Mammal Research Uni	Scotland, UK <i>02/2017–12/2017</i>
• University of Auckland Consultant, School of Epidemiology &	Biostatistics	Auckland, NZ 02/2017–05/2017
• University of St Andrews Tutor, School of Mathematics and Stati	stics	Scotland, UK 2014–2016
• University of St Andrews Tutor, Centre for Academic, Professiona	al 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

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

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.

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.

In preparation

Jones-Todd, C. M., Illian, J. B., & Marques, T. A. 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

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Available on request.