

Curriculum Vitae—Charlotte M. Jones-Todd



Personal Details

Position: Statistician

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Education

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

Employment

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

Scholarships and Awards

- **Statistical Excellence Award for Early-Career Writing—Finalist** *2017*
Royal Statistical Society
- **RSS 2015 Challenge—Finalist** *2015*
Royal Statistical Society
- **School of Mathematics PhD Scholarship** *2013–2016*
University of St Andrews
- **EPSRC MSc Scholarship** *2012*
University of St Andrews

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.**, & Blangiardo, 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.**, & Blangiardo, 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

Soriano-Redondo, A., **Jones-Todd, C. M.**, Bearhop, S., Hilton, G. M., Lock, L., Stanbury, A., Votier, S. C., and 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., Schick, R., & Joy, R. A discrete-space, continuous-time analytical approach to monitor transition rates of species in relation to human disturbance. In preparation for submission to *Ecological Applications*.

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.**, & Blangiardo, 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

Centre for Research into Ecological and Environmental Modelling

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Professor

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