

Curriculum Vitae—Charlotte Moragh Jones-Todd



Personal Details

Position: Statistician

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Education

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

Employment

- **National Institute of Water and Atmospheric Research (NIWA)** *01/2018–present*
Statistician
- **University of St Andrews** **Scotland, UK**
Consultant, School of Mathematics and Statistics & Sea Mammal Research Unit (SMRU) *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—Runner up** 2017
Royal Statistical Society
- **RSS 2015 Challenge—Runner up** 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. Identifying prognostic structural features in tissue sections of colon cancer patients using point pattern analysis. *Statistics in Medicine* (In press) <https://doi.org/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. (2018) *Journal of the Royal Statistical Society, Series A (Statistics in Society)*.

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

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.

In preparation

Jones-Todd, C. M., Illian, J. B., & Marques, T. Applications of a joint marked point process spatio-temporal model.

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

Online

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

Technical Skills

User of: R, Git, Bash, C++, Python, Latex, MS Office/Excel, SPSS, HTML, CSS

Professional Service

- **Manuscript reviewing**
Reviewer for Ecology.
- **Manuscript reviewing**
Reviewer for the Journal of the Royal Statistical Society, Series C.
- **Manuscript reviewing**
Reviewer for Ecology and Evolution.
- **Manuscript reviewing**
Reviewer for Ecological Research.
- **Interview panel member**
Centre for Academic, Professional and Organisational Development (CAPOD).

Other.....

- **Judge** Waikato Science and Technology Fair 2018

References

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