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) in mathematics *first class*** — **Wales, UK**
  Aberystwyth University — *2009–2012*

Employment

- **National Institute of Water and Atmospheric Research** — **Hamilton, NZ**
  Statistician — *01/2018–present*
- **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**
  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) Estimating species distribution in highly dynamic populations using 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

References

Available on request.