

Curriculum Vitae—Charlotte Moragh Jones-Todd



Personal Details

Position: Statistician

NIWA, Gate 10 Silverdale Road, Hillcrest, Hamilton

Phone: +64 (0)210 291 2275

E-mail: cmjonestodd@gmail.com

Online:  github.com/cmjt  [@cmjonestodd](https://twitter.com/cmjonestodd)

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* (2018) <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 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. *Significance*

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.**, and 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

Online

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

Submitted

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

Technical Skills

User of: R, Git, Bash, Latex, C++, HTML, CSS, Python

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

Dr Janine B. Illian

Senior Lecturer

Centre for Research into Ecological and Environmental Modelling

School of Mathematics and Statistics

University of St Andrews

St Andrews

Fife

KY16 9LZ

United Kingdom

Phone: +44 (0)1334 461 803

Email: jbi@st-andrews.ac.uk

Prof. David L. Borchers

Professor

Centre for Research into Ecological and Environmental Modelling

School of Mathematics and Statistics

University of St Andrews

St Andrews

Fife

KY16 9LZ

United Kingdom

Phone: +44 (0)1334 461 843

Email: dlb@st-andrews.ac.uk

Dr Rob Schick

Research Scientist

Marine Geospatial Ecology Laboratory

Nicholas School of the Environment

Duke University

A328-LSRC Building

Durham

North Carolina 27708

United States of America

Phone: +1 (0)9196 138 021

Email: robert.schick@duke.edu