

# Curriculum Vitae—Charlotte Moragh Jones-Todd

## Personal Details

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**Position:** Statistician

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publons.com/author/1320569/charlotte-jones-todd

## Education

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- **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

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- **NIWA**  
*Statistician* 01/2018–present
- **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

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

## Publications

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### *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).

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.

### *Submitted*

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

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

Professional Service

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- **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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Available on request.