

# Academic Activities—Charlotte M. Jones-Todd

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## Invited Conference Talks and Meetings

<b>A time to kill: Great British serial killers</b> <i>Royal Statistical Society Conference, Glasgow, Scotland</i> .....	September 5th 2017
<b>Why spatial models are useful in ecology (understanding the mechanics of dots)</b> <i>Statistische Woche, Hamburg, Germany</i> .....	September 15th 2015
<b>Easy on the eyes: A spatio-temporal analysis of eye movement</b> <i>Royal Statistical Society Conference, Exeter, UK</i> .....	September 9th 2015
<b>INLA &amp; SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns</b> <i>University of Lisbon, Portugal</i> .....	April 1st 2015
<b>Using INLA to fit complex spatial models to ecological data</b> <i>University of Lisbon, Portugal</i>	April 1st 2015

## Other Conference Talks, Seminars, and Presentations

<b>Shared latent fields for mark-dependence in a log-Gaussian Cox process</b> <i>Australasian Applied Statistics Conference (AASC), Rotorua, NZ</i> .....	December 4th 2018
<b>Shared latent fields for mark-dependence in a log-Gaussian Cox process</b> <i>International Statistical Ecology Conference (ISEC), St Andrews, Scotland</i> .....	July 4th 2018
<b>Spatial modelling (INLA and some other stuff)</b> <i>NIWA, Wellington, NZ</i> .....	March 16th 2018
<b>How spatial modelling works</b> <i>NIWA, Hamilton, NZ</i> .....	February 20th 2018
<b>Modelling spatio-temporal data</b> <i>CREEM, University of St Andrews, Scotland</i> .....	September 21st 2016
<b>Modelling unusual spatial structures: An application to colorectal cancer data</b> <i>University of Cape Town, South Africa</i> .....	July 25th 2016
<b>A spatio-temporal marked point process model</b> <i>International Statistical Ecology Conference (ISEC), Seattle, USA</i> .....	July 1st 2016
<b>A spatio-temporal multi-species model</b> <i>NCSE summer meeting, Falmouth, UK</i> .....	June 29th 2015
<b>Terrorism in space and time</b> <i>Spatial Statistics: Emerging Patterns, Avignon, France</i> .....	June 12th 2015
<b>Spatio-temporal modelling</b> <i>Geo-Environmental Modelling Symposium, University of St Andrews, Scotland</i> .....	April 30th 2015
<b>Spatial modelling: Its use in predictive policing</b> <i>Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland</i>	April 28th 2015

<b>INLA &amp; SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns</b> <i>University of Lisbon, Portugal</i>	April 1st 2015
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<b>Using latent Gaussian models to infer the spatial structure inherent in point patterns</b> <i>CREEM, University of St Andrews, Scotland</i>	January 1st 2015
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<b>Spatial / spatio-temporal modelling</b> <i>CREEM, University of St Andrews, Scotland</i>	August 29th 2014
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<b>The use of spatio-temporal models in intelligence-led policing</b> <i>37th Research Students' Conference in Probability and Statistics, Nottingham, UK</i>	April 30th 2014
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<b>Fitting a spatial model to Atlantic salmon fry abundance data, using integrated nested Laplace approximation</b> <i>CREEM, University of St Andrews, Scotland</i>	August 2013

## Posters

<b>A Bayesian approach to modelling fine-scale spatial dynamics of non-state terrorism: world study, 2002-2013</b> <i>International Society for Bayesian Analysis (ISBA) conference</i>	June 13th 2016
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<b>Did “Operation Iraqi Freedom” work?</b> <b>(A joint marked point process modelling approach)</b> <i>Challenges and Perspectives in Modelling the Spatial Dynamics of Conflict and Terrorism, University of St Andrews, Scotland</i>	December 3rd 2015
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<b>Where did all the points go?</b> <i>Spatial Statistics: Emerging Patterns, Avignon, France</i>	June 9th–12th 2015
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<b>The use of spatio-temporal ecological models in predictive policing</b> <i>International Statistical Ecology Conference (ISEC), Montpellier, France</i>	July 1st–4th 2014
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<b>Preventing crime through spatial modelling</b> <i>Scottish Institute for Policing Research Meeting, Edinburgh, Scotland</i>	November 13th 2013

## Workshops Attended

<b>What Are The Odds?</b> <i>An Interactive Workshop in Sports Modelling, Exeter, UK</i>	July 7th–8th 2016
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<b>Flexible Programming with BUGS Models (NIMBLE), Seattle, USA</b>	June 27th 2016
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<b>Ecological Survey Spatial Modelling (ESSMod), St Andrews, Scotland</b>	March 21st–22nd 2016
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<b>Software Carpentry, St Andrews, Scotland</b>	June 18th–19th 2015

# Teaching

## Tutoring at the University of St Andrews

Centre for Academic, Professional and Organisational Development (CAPOD) <b>Course tutor - using R for statistics</b>	2015–2016
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Centre for Academic, Professional and Organisational Development (CAPOD) <b>mathematics and statistics support</b>	2013–2016
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<b>MT1007</b> - Statistics in Practice	2014
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<b>MT2004</b> - Statistics	2014
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<b>MT1002</b> - Mathematics	2014
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<b>MT5753</b> - Statistical Modelling	2013
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<b>MT1001</b> - Introductory Mathematics	2013
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<b>MT1008</b> - Mathematical Information Technology	2013

## Workshops

<b>Statistics and R</b> Instructor <i>NIWA, Hamilton, NZ</i>	November–December 2018
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<b>Keep going with Git</b> Instructor <i>NIWA, Hamilton, NZ</i>	September 6th 2018
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<b>Make your R code shiny</b> Instructor <i>NIWA, Hamilton, NZ</i>	May 10th 2018
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<b>Get going with Git</b> Instructor <i>NIWA, Hamilton, NZ</i>	March 15th 2018
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<b>Introductory statistics course</b> Tutor <i>The Namibia University of Science and Technology, Namibia</i>	August 2nd–5th 2016
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<b>Statistics for spatio-temporal data: INLA and SECR</b> Instructor & Demonstrator <i>Stellenbosch University, South Africa</i>	July 27th 2016
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<b>Challenges and perspectives in modelling the spatial dynamics of conflict and terrorism</b> Presenter <i>University of St Andrews, Scotland</i>	December 3rd 2015
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<b>Using INLA to fit complex spatial models to ecological data</b> Instructor <i>University of Lisbon, Portugal</i>	April 1st 2015

<b>Minicourse: The SPDE approach flexible spatial modelling in practice</b>	Dec 3rd 2014
Instructor	
<i>CREEM University of St Andrews, Scotland</i>	
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<b>Using the integrated nested Laplace approximation approach to fit complex ecological models</b>	June 28th 2014
Demonstrator	
<i>International Statistical Ecology Conference (ISEC), Montpellier, France</i>	
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<b>Spatial modelling with INLA</b>	June 2nd–4th 2014
Demonstrator	
<i>CREEM University of St Andrews, Scotland</i>	

## Other

Centre for Academic, Professional and Organisational Development (CAPOD) <b>Dissertation support</b>	2014–2015
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Student Support worker <b>Note-taker and examination scribe/reader</b>	2014–2016
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Centre for Academic, Professional and Organisational Development (CAPOD) <b>Redesign of statistical support website</b>	2013
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School of Mathematics and Statistics	
<b>Undergraduate module marking</b>	2013–2016