

Richard Glennie

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Education

PhD in Statistics 2014 – Present
University of St Andrews
Thesis: *Incorporating Animal Movement with Distance Sampling and Spatial Capture-Recapture*

MMath (Hons) Mathematics (Fast Track) 2010 – 2014
University of St Andrews
1st Class
Royal Statistical Society accredited course
St Andrews GPA: 19.4

Employment

School coordinator for Academic Skills 2017 – Present
University of St Andrews

Tutor and demonstrator 2014 – Present
University of St Andrews
School of Mathematics and Statistics

Maths and Statistics Tutor 2014 – Present
University of St Andrews
Centre for Academic, Professional and Organisational Development

Private tutor 2014 – 2016
Tutored High-School and College level students

Scholarships

Carnegie-Caledonian PhD scholarship 2014 – Present
Full 3.5 year funding awarded

Carnegie vacation scholarship 2013 – 2014
Undergraduate research internship at University of St Andrews

Summer Studentship 2012 – 2013
Undergraduate studentship award by School of Mathematics and Statistics
University of St Andrews

Summer Studentship 2011 – 2012
Undergraduate studentship award by School of Mathematics and Statistics
University of St Andrews

Robertson Trust scholarship 2010 – 2014
Undergraduate bursary

Awards

Highly commended student poster presentation EURING conference, Barcelona	July 2017
Outstanding student oral presentation International Statistical Ecology Conference, Seattle	July 2016
Duncan Medal Awarded to best senior honours dissertation	2014
Royal Statistical Society Prize Awarded to best senior honours student on a programme accredited by the Royal Statistical Society	2014
Duncan Prize Awarded for exceptional performance in Junior Honours	2013
Tullis Medal Awarded for exceptional performance in 2nd year undergraduate	2012
Margaret Stewart Prize Awarded for exceptional performance in 1st year undergraduate	2011

Publications

Langrock, R., Kneib, T., **Glennie, R.**, & Michelot, T. (2017). Markov-switching generalized additive models. *Statistics and Computing*, 27(1), 259-270.

Glennie, R., Buckland, S. T., & Thomas, L. (2015). The effect of animal movement on line transect estimates of abundance. *PloS one*, 10(3), e0121333.

Submitted Papers

Glennie, R., Buckland, S. T., Langrock, R., Gerrodette, T., Ballance, L. T., Chivers, S. J., Scott, M.D., & Perrin, W. F. (2017). Incorporating animal movement into distance sampling. *submitted to Journal of American Statistical Association*.

Glennie, R., Borchers, D. L., Murchie, M., Harmsen, B. J., & Foster, R. J. (2017). Open population maximum likelihood spatial capture-recapture. *submitted to Biometrics*.

In Preparation

Glennie, R., Laozao, M., Arcos J. M., & García I. Distance sampling with behaviour-switching animal movement.

Glennie, R & Young, S. Open population spatial capture-recapture with Markov transience by maximum likelihood.

Glennie, R., Harmsen B. J., & Foster, R. J. Continuous-time spatial capture-recapture with animal movement.

Book In Preparation

Borchers, D. L., Stevenson, B., Howe, E., Distiller, G., & **Glennie, R.**. Spatial capture-recapture by maximum likelihood. Springer.

Software

Creator and Maintainer of R package: `openpopscr` Sept 2017
<https://github.com/r-glennie/openpopscr>

Presentations

Accounting for animal movement in distance sampling Aug 2017
Intermediate Distance Sampling Workshop, St Andrews

Behaviour-switching animal movement with distance sampling Jul 2017
EURING conference, Barcelona

Incorporating animal movement with distance sampling and spatial capture-recapture Jun 2017
Summer meeting for the National Centre for Statistical Ecology, Canterbury

Counting animals in Statistical Ecology Nov 2016
St Andrews Mathematics Undergraduate Society, St Andrews

Modelling movement in continuous-time spatial capture-recapture Oct 2016
Seminar, Centre for Research into Ecological and Environmental Modelling, St Andrews

The effect of animal movement on distance sampling Aug 2016
Advanced Distance Sampling Workshop, St Andrews

Incorporating animal movement into distance sampling Jul 2016
International Statistical Ecology Conference, Seattle

Path integrals in Ecology Jan 2016
Mathematics and Statistics School Research Day, St Andrews

Encounters in Ecology Aug 2015
38th Research Students' Conference in Probability and Statistics

The effect of animal movement on line transect estimates of abundance and spatial capture-recapture Jul 2013
Summer meeting for the National Centre for Statistical Ecology, Canterbury

Teaching

Tutor for School of Mathematics and Statistics
MT4113: Computing in Statistics 2016, 2017
MT2508: Statistical Inference 2014, 2015, 2016
MT2504: Combinatorics and Probability 2014, 2016

MT1002: Mathematics 2015

Mathematics and Statistics Tutor 2014 – Present
Centre for Academic, Professional, and Organisational Development

Workshop Demonstrator

Run by the Centre for Academic, Professional, and Organisational Development
in association with Biomathematics and Statistics Scotland

Applied Multivariate Statistics	Apr 2017
Experimental Design	Apr 2017
Mixed Models	Mar 2017
Regression	Feb 2017
Basic Statistics	Jan 2017

Senior Honours Dissertation Co-Supervisor 2016
Supervised dissertation entitled *Estimating the survival of Jaguars in the Cockscomb Basin Wildlife Sanctuary, Belize*

Peer Reviewing

Performed peer reviews for the following journals:

The Annals of Applied Statistics	Apr 2017, Aug 2017
Ecology and Evolution	Aug 2016
Journal of Applied Statistics	Nov 2015, Jun 2016
Conservation Biology	Oct 2015
Methods in Ecology and Evolution	Dec 2014