Thomas Guillerme

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RESEARCH INTERESTS

I am interested in macroevolutionary biology; the stories behind the history of Life and the methodologies with which it is investigated. I am particularly interested in ways of combining classical methods such as descriptive palaeontology with modern bioinformatic tools such as phylogenomics and mathematical modelling.

EDUCATION

2012 - Present: (due 10/2015)	PhD in Zoology, Trinity College Dublin *How does combining data from fossils and living species change our interpretation of evolutionary patterns and processes?*
2010 - 2012:	MSc in Palaeontology (honours), Université Montpellier II 2nd year project: *Molecular clocks and evolutionary rates among primates: a palaeontological and genomic approach.* 1st year project: *Southern France Upper Cretaceous Theropod teeth variability.*
2007 - 2010:	BSc in Biology, Université Montpellier II

PUBLICATIONS

Peer reviewed

In review: **Guillerme T.** and Cooper, N. Effects of missing data on topological inference using a Total Evidence approach. *PLOS ONE*

Personal Contributions: Designing the simulations, writing the code and running the analysis, writing the paper.

2014: Healy, K., **Guillerme T.**, Finlay, S., Kane, A., Kelly, S.B.A., McClean, D., Kelly, D.J., Donohue, I., Jackson, A.L. and Cooper, N.
Ecology and mode-of-life explain lifespan variation in birds and mammals.
Proceedings of the Royal Society B, 281(1784). DOI: 10.1098/rspb.2014.0298

Personal Contributions: writing the code and running the analysis. Developed R package: mulTree – github.com/TGuillerme/mulTree.

AWARDS AND GRANTS

2014: BES Photo Competition Student Price (Ecology and Society)
2012: Trinity Postgraduate Research Studentship (€46800)

COMPUTER SKILLS

Coding:	**R***, **Bash***, HTML, LaTeX, git
Phylogenetics:	PAUP, MrBayes, **BEAST***, RAxML, PhyloBayes, CoEvol MACSE, MAFFT, SEAview, Tracer, Mesquite, R{ape} R{geiger}, R{diversitree}, R{MCMCglmm}, R{caper}
Morphometrics:	TPS, R{geomorph}, R{MASS}
Graphics:	Adobe Illustrator, Adobe Photoshop, Gimp, Inkscape

* Skills taught at workshops (see below)

CONFERENCES AND WORKSHOPS

International Conferences

2014: *SVP annual meeting* - Berlin, Germany
Symposium presentation (**invited talk**): *Putting fossils in trees*
Talk: Total evidence phylogenies and missing data
Available here: goo.gl/CBqSVJ

2014: *BES Macroecology SIG meeting* - University of Nottingham, UK
Talk: Trees with fossil and living species: the data issue
Available here: goo.gl/Sdcxon

2014: *Evolution 2014* - Raleigh NC, USA
Symposium presentation: *Ernst Mayr Symposium*
Talk: Total evidence phylogenies: the missing data issue
Available here: goo.gl/oPfHZE

2014: *Challenges in Macroecology: Scaling the Time Barrier* - Natural History Museum London, UK
Talk: Trees with fossil and living species: the missing data issue
Available here: goo.gl/c1RBER

2013: *European Society for Evolutionary Biology Congress* - Lisbon, Portugal
Poster: Combining fossils and molecular phylogenies
Available here: goo.gl/3HcRGH

2013: *11th International Mammalogical Congress* - Queen's University, Belfast, UK
Poster: Combining fossils and molecular phylogenies
Available here: goo.gl/3HcRGH

Workshops

2015: OpenData & Reproducibility workshop
Nick Isaac & Emiel van Loon, Charles Darwin House, London, UK

2013: Introduction to Trinity Centre for High Performance Computing
Paddy Doyle, Trinity College Dublin, Ireland

2013: Spatial Analysis in R Workshop
Barry Rowlingson, University of Sheffield, UK

2013: Introduction to Morphometrics Workshop
François Gould, Trinity College Dublin, Ireland

2013: IUCN Red List of Ecosystems Workshop
Edmund Barrow, Trinity College Dublin, Ireland

PROFESSIONAL SERVICE

Reviewing: Reviewer for the International Journal of Primatology

Workshops:

2014:	Tip-Dating workshop — *helper*
	Nicholas Matzke & April Wright, SVP Annual meeting - Berlin
2014:	Software Carpentry Bootcamp - `R` and UNIX — *helper*
	Devasena Inupakutika & Aur Saraf, University of Nottingham

Academic memberships:

2014-present:	Member of the Society of Vertebrate Palaeontology
2013-present:	Member of Society of Systematic Biologists
2013-present:	British Ecological Society (BES) including Macroecology Special Interest Group

Departmental services: 2013-present: Zoology Postgraduate student social committee chair

TEACHING

Academia

2014:	MSc students: Timing Evolution
	Teacher, Trinity College Dublin - IE
2014 :	Software Carpentry Bootcamp - R and UNIX
	Helper, University of Nottingham - UK
2013-14:	2nd year MSc students: Statistics with R
	Teaching assistant, Trinity College Dublin - IE
2013-14:	4th year undergraduate students: Evolution
	Teaching assistant, Trinity College Dublin - IE
2012-13:	4th year undergraduate students: Statistics with R
	Teaching assistant, Trinity College Dublin - IE
2012-13:	1st year undergraduate students: Introduction to Biodiversity Evolution and the Environment
	Teaching assistant, Trinity College Dublin - IE

Student supervision

| 2014: | Maura Judge (4th year project): Bite force and diet in mammals. |

FIELDWORK AND DATA COLLECTION

2013-14:	Museum data collection: Smithsonian Institute Natural History Museum (Washington DC), American Museum of Natural History (New York), Museum of Comparative Zoology (Cambridge, MA), Muséum National d'Histoire Naturelle (Paris)
2011-12:	Excavations in Cruzy, France
	Southern France, Continental Cretaceous
2011:	Excavations in Krasiejów, Poland
	Southern Poland, Continental Trias
2009-10:	Excavations in Espéraza, France - Site fore-person
	Southern France, Continental Cretaceous

PUBLIC ENGAGEMENT AND OUTREACH

– Regular contributor to EcoEvo@TCD blog; rated best Irish Science and Technology blog (2014).
– Complete list available here: goo.gl/MAq9oA
– Featured posts: How do lego cars evolve?; If you please – draw me a dino...; The more the better?.
– Threesis video (*early stage* thesis project explained in three minutes).

Outreach Events

2014 & 2013:   Trinity College Dublin Zoology Department, Researcher's night – *participant*
2014:   1st Soapbox Science Ireland – *helper*
2014:   "What can we learn from skeletons", comparative anatomy practical – *Co-organiser*
2013:   Trinity College Zoology Museum guided tours – *tour guide*
2010:   Introduction to palaeontological excavations, Musée des Dinosaures (FR) – *animator*