
Thomas Guillerme

Zoology PhD Candidate at Trinity College Dublin

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Address

Zoology Department
School of Natural Sciences
Trinity College Dublin
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IRELAND

EDUCATION

2012 - Present: PhD in Zoology, Trinity College Dublin - IE
*How does including fossils in phylogenetic trees change
our interpretation of present-day biodiversity?*

2010 - 2012: Master degree in Palaeontology, Université Montpellier II - FR
with honours, ranking 3/13
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: Bachelor degree in Biology, Université Montpellier II - FR

AWARDS AND GRANTS

2014: BES Photo Competition Student Price (Ecology and Society)

2012: Trinity Postgraduate Research Studentship (€46800)

PUBLICATIONS

Peer reviewed

In review: **Guillermo 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., **Guillermo 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: collecting the data, writing the code and running the analysis.

ACADEMIC SERVICES

Reviewer for the International Journal of Primatology

COMPUTER SKILLS

Coding: R, Bash, HTML, LaTeX, git

Phylogenetics: *PAUP**, MrBayes, BEAST, RAxML, PhyloBayes, CoEvol

MACSE, MAFFT, SEAviiew, 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

GitHub Repository

CONFERENCES AND WORKSHOPS

Conferences contributions

- 2014: *4th Annual Botany-Zoology Trinity Postgraduate Symposium* - Trinity College Dublin - IE
Talk: Diversity and disparity in mammals around the K-T Boundary.
- 2014: *SVP annual meeting* - Berlin - DE
Symposium presentation: *Putting fossils in trees*
Talk: Total evidence phylogenies and missing data
- 2014: *BES Macroecology SIG meeting* - University of Nottingham - UK
Talk: Trees with fossil and living species: the data issue
- 2014: *Evolution 2014* - Raleigh Convention Centre - USA(NC)
Symposium presentation: *Ernst Mayr Symposium*
Talk: Total evidence phylogenies: the missing data issue
- 2014: *Challenges in Macroecology: Scaling the Time Barrier* - Natural History Museum London - UK
Talk: Trees with fossil and living species: the data issue
- 2014: *3rd Annual Botany-Zoology Trinity Postgraduate Symposium* - Trinity College Dublin - IE
Talk: Total evidence phylogenies: the missing data issue - *Runner up*.
- 2013: *European Society for Evolutionary Biology Congress* - Lisbon - PT
Poster: Combining fossils and molecular phylogenies
- 2013: *11th International Mammalogical Conference* - Queens University, Belfast - UK
Poster: Combining fossils and molecular phylogenies

Workshops

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- 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 - UK
- 2013: Introduction to Trinity Centre for High Performance Computing
Paddy Doyle, Trinity College Dublin - IE
- 2013: Spatial Analysis in R Workshop
Barry Rowlingson, University of Sheffield - UK
- 2013: Introduction to Morphometrics Workshop
François Gould, Trinity College Dublin - IE
- 2013: IUCN Red List of Ecosystems Workshop
Edmund Barrow, Trinity College Dublin - IE

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.

OUTREACH

- Regular contributor to EcoEvo@TCD blog.
- Threesis video (thesis explained in three minutes).

Events

- 2014: Trinity College Zoological Department, Researcher's night
Trinity College Dublin - IE
- 2014: 1st Soapbox Science Ireland event (volunteer helper)
Trinity College Dublin - IE
- 2014: "What can we learn from skeletons", practical lecture on comparative anatomy
Trinity College Dublin - IE
- 2013: Trinity College Zoological Museum guided tours
Trinity College Dublin - IE
- 2013: Trinity College Zoological Department, Culture night and Researcher's night
Trinity College Dublin - IE
- 2010: Introduction to palaeontological excavations
Musée des Dinosaurs (Espéraza, Aude) - FR

MISCELLANEOUS

Fieldwork

- 2013-14: Museum data collection:
Smithsonian (US), AMNH (US), MCZ (US), MNHN (FR)
- 2011-12: Excavations in Cruzy (FR)
Southern France, Continental Cretaceous
- 2011: Excavations in Krasiejów (PL)
Southern Poland, Continental Trias
- 2009-10: Excavations in Espéraza (FR) - Site foreman
Southern France, Continental Cretaceous

Spoken languages

English, French and Dutch.
