

# ALBERTO J. C. MICHELETTI

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## EDUCATION

Sep 2015 - **University of St Andrews, UK**

Sep 2018 *PhD Biology* (funded by the School of Biology)

(expected) Supervisors: Dr Andy Gardner and Prof Graeme Ruxton

### Theory of Human Social Evolution: Genes, Individuals, Groups

I develop novel theory and apply existing modelling frameworks to investigate the evolutionary-ecological factors driving warfare and other forms of competition between human groups and their role in the evolution of cooperation and complex societies. I identify which stable strategies result as outcomes of conflicts of interest over social behaviours between parties at the same and at different levels of the biological hierarchy (genes, individuals, groups), with particular attention to the role of epigenetic mechanisms, such as genomic imprinting and cultural transmission.

2011- **University of St Andrews, UK**

2015 *BSc (Hons) Evolutionary Biology*, First class, GPA: 17.6/20.0

3<sup>rd</sup> Year Abroad at the **University of Toronto, Canada**

(St Andrews Abroad programme) GPA: 88 % (A)

Senior Honours project: Function of mobbing calls in Blue tits

Relevant modules include: Principles of Evolution, Behaviour and Behavioural Ecology, Evolution of the Human Genome, Evolutionary Ecology, Biostatistics, Plant-Animal Interactions, Animal Communication and Cognition, Breeding Systems and Sexual Conflict, Biology and Behaviour of Social Insects

## PUBLICATIONS

**Micheletti AJC**, Ruxton GD & Gardner A (2017). Intrafamily and intragenomic conflicts in human warfare, *Proc R Soc B*, 284, 20162699 [[link](#)]

## RESEARCH PRESENTATIONS

**Micheletti AJC**, Ruxton GD & Gardner A (2016) Intrafamily and intragenomic conflicts in human warfare.

- Talk at 16<sup>th</sup> Congress of ESEB (2017)
- Poster at EHBEA Annual Conference (2017)
- Poster at 16<sup>th</sup> Congress of ISBE (2016)

## AWARDS & GRANTS

- Genetics Society Junior Scientist Conference Grant (£700; 2017)
- EHBEA Student Travel Bursary (€100; 2017)
- Margaret Laing Bell Prize (2014-15)  
outstanding Senior Honours student in Plant and Environmental Biology
- Deans' list (2011-12, 2012-13, 2013-14, 2014-15)  
awarded for average 1<sup>st</sup> class grade

## ACADEMIC SERVICE

Reviews: *Biology Letters* (1), *Behavioural Ecology* (1), *Ibis* (1), *Royal Society Open Science* (1).

Admin: Quantitative Biology Discussion Group (QBDG) seminar series, *Administrator* (2015 - )

## TEACHING EXPERIENCE

Sep - Dec 2016 & 17 University of St Andrews; Quantitative Methods for Biology (BL5111, MSc-level),  
*Tutor*

Jan - Apr 2017 University of St Andrews; Animal Behaviour: A Quantitative Approach (BL3319,  
BSc-level), *Experimental research mini-project advisor*

Jan - Apr 2017 University of St Andrews; Sustainable Development: Tools for Action (SD2002,  
Bsc-level), *Tutor*

Sep - Dec 2017 University of St Andrews; Evolutionary Biology (BL2303, Bsc-level), *Responsible for setting and marking essay question*

## ADDITIONAL RESEARCH & SCIENTIFIC EXPERIENCE

June 2017 **Santa Fe Institute, NM, USA**; Complex Systems Summer School (CSSS)

- 4-week highly competitive summer programme aimed at introducing young researchers to complex systems and interdisciplinary research
- Lectures by leading scholars from SFI and beyond, in addition to labs and discussion sessions.
- Topics include: nonlinear dynamics, information & computation theory, adaptation, network structure & dynamics, and computer modeling tools
- Interdisciplinary and collaborative team project with other participants with publication of research paper (Nov 2017)

May 2014 - May 2015 **University of St Andrews, UK**; School of Biology; Supervisor: Dr Chris Templeton  
Senior Honours project: 'Function of mobbing calls in Blue tits'

- Aim: investigate if and how blue tit calls encode information about predator
- Independent research project; worked on the field largely independently
- Performed predator presentation experiments in the field using taxidermied predators; recorded behavioural and acoustic data; analysed data independently using bioacoustics and statistical methods
- Spin-off project: collaboration with PhD student Nora Carlson

