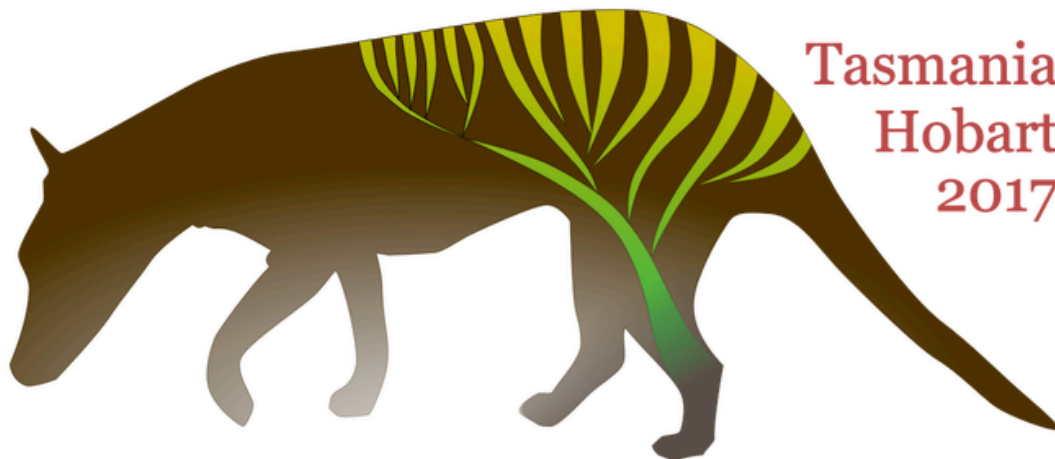


Australasian Evolution Society and Phylomania Combined Meeting



Tasmania
Hobart
2017

Start	Finish	MONDAY 4th DECEMBER 2017	
8:30	9:00	Opening Addresses (Lecture Theatre 1, Level 1)	
9:00	10:00	<p>Tobias Uller Causes and Consequences of Hybridization: From Behaviour to Evolution</p>	
10:00	10:30	Morning Tea	
		Sex (LT 1)	Co-Evolution & Conservation (LT 2, Rm 214)
10:30	10:50	<p>Michael Jennions Sex ratios and sex roles</p>	<p>Emily Remnant Changing viral landscapes in honeybee populations exposed to an ectoparasitic mite</p>
10:50	11:10	<p>Isobel Booksmythe When to make males: the timing of sex and male production in Daphnia</p>	<p>Dany Zemeitat Food reward mutualisms: matching macronutrient synthesis with macronutrient preference</p>
11:10	11:30	<p>Toshihisa Yashiro Lost males in mixed-sex termites societies</p>	<p>Maider Iglesias-Carrasco Effect of exotic tree plantations on the sexual behaviour of the palmate newt (<i>Lissotriton helveticus</i>)</p>
11:30	11:50	<p>Amy Edwards Maternal effects obscure condition-dependent sex allocation in changing environments</p>	<p>Isabel Damas Moreira Learning Skills in an Invasive Lizard</p>
11:50	12:10	<p>Shane Richards Investigating mate opportunity cost as the driver of protandry for a butterfly</p>	<p>Ella Kelly Can targeted gene flow be used to save northern quolls from extinction?</p>
12:10	12:30	<p>Sarah Aamidor "Stranger things": Gynandromorphs and androgenesis in honey bees <i>Apis mellifera</i></p>	<p>Ben Phillips Using connectivity to identify environmental axes associated with local adaptation</p>

12:30	13:10	LUNCH	
		Developmental Plasticity (LT 1)	Life History and Physiology (LT 2)
13:10	13:30	Hayley Cameron Does within-brood variation in egg size affect fertilization success?	Rebecca Pacey Heritability of colour pattern and physiological colour change in jacky dragons
13:30	13:50	Carmen Da Silva Thermal acclimation in a rapidly fluctuating environment: the intertidal zone	Amanda Pettersen Competition mediates selection on metabolic rates in the field
13:50	14:10	Gracie Liu Hormonal mediators of thermal maternal effects in the jacky dragon (<i>Amphibolurus muricatus</i>)	Susi Zajitschek Does senescent maladaptiveness unite the sexes? Age effects on male-female fitness correlation in <i>Drosophila melanogaster</i>
14:10	14:30	Louise Noergaard Early developmental temperatures and phenotypic plasticity: a meta-analysis	Venkatesh Radha Genetic variation in the mitochondrial genome exerts sex-specific effects on metabolic rate of fruit flies
14:30	14:50	Regina Vega-Trejo Inbreeding depression and a poor start in life	Jannike Axelsson Thermal effects on telomeres in sand lizards
14:50	15:10	Marcus Michelangeli Integrating thermal physiology within a syndrome: locomotion, personality and habitat selection in an ectotherm	Luisa Fitzpatrick Is ageing hot? Telomere attrition rates in a viviparous reptile.
15:10	15:40	Afternoon Tea	
		Open Session (LT 1)	
15:40	16:00	Alistair Senior Is fertility selection the key to the double puzzle of diabetes?	
16:00	16:20	Camilla Whittington The genetic basis of vertebrate pregnancy and birth	
16:20	16:40	Michael Kasumovic Video games: How to take science and teaching to the next level	
17:00	20:00	Opening Night (AES Poster Session and Special Screening of 16 Legs)	

		TUESDAY 5th DECEMBER 2017	
8:50	9:00	Opening Address (Lecture Theatre 1)	
9:00	10:00	Carla Sgro Responding to environmental change: plasticity or evolution?	
10:00	10:30	Morning Tea	
		Sexual Selection (LT 1)	Climate Change (LT 2)
10:30	10:50	<p style="text-align: center;">Jacob Berson</p> Sex-dependent evolution of an olfactory display trait: experimental evidence that sexual selection drives the evolution of cuticular hydrocarbons in a dung beetle	<p style="text-align: center;">Mitchell Hodgson</p> Variation in the thermal behaviour and physiology of ectotherms and its implications for response to novel thermal environments.
10:50	11:10	<p style="text-align: center;">John Endler</p> Visual contrast and colour pattern evolution in guppy populations	<p style="text-align: center;">Belinda van Heerwaarden</p> Limited scope for plasticity to increase upper thermal limits
11:10	11:30	<p style="text-align: center;">Chris Friesen</p> Correlated evolution of sexually selected traits: Interspecific variation in ejaculates, sperm morphology, copulatory mate-guarding and body size in two sympatric species of garter snakes	<p style="text-align: center;">Tobias Hector</p> How infectious disease affects thermal tolerance
11:30	11:50	<p style="text-align: center;">Jessica Moran</p> Rival accessory gland secretions increase sperm velocity in the European honey bee (<i>Apis mellifera</i>)	<p style="text-align: center;">Vanessa Kellermann</p> Can we predict species plastic responses to climate change?
11:50	12:10	<p style="text-align: center;">Rowan Lymbery</p> Sperm competition, gamete choice and genetic mechanisms in a broadcast spawner	<p style="text-align: center;">George Cunningham</p> Sex in a warming climate: predicting the influence of climate on offspring sex in snow skinks across Tasmania
12:10	12:30	<p style="text-align: center;">Boris Yagound</p> Male honey bees produce semen with unique DNA methylation profiles	<p style="text-align: center;">Fabien Aubret</p> Altitudinal colonisation and adaptability to hypoxia: an ignored constraint of climate change on biodiversity
12:30	1:30	Lunch/AES Society Meeting	
		Macro Evolution 1 (LT 1)	Social (LT 2)
13:30	13:50	<p style="text-align: center;">Julian Beaman</p> Evolution of allometric scaling: limited evolutionary potential for mass-dependence of metabolic rate	<p style="text-align: center;">Geoff While</p> The evolutionary ecology of family living in lizards
13:50	14:10	<p style="text-align: center;">Martino Malerba</p> The eco-evolutionary dynamics of body size	<p style="text-align: center;">Julia Riley</p> Early experience impacts social plasticity of the family-living tree skink
14:10	14:30	<p style="text-align: center;">Dustin Marshall</p> Why are big things big? Why are small things small?	<p style="text-align: center;">Nathan Burke</p> Hanging with the wrong crowd? Juvenile exposure to males reduces female investment in asexual reproduction in a stick insect

14:30	14:50	Terry Ord Diversifying versus stabilizing selection on body size in Southeast Asian gliding dragons (genus <i>Draco</i>)	Joel Pick Shopaholic house sparrows: understanding parental care from the parent's point of view
		Lightning Talks (LT 1)	
14:50	14:55	Tom Botterill-James Family aggression in a social lizard	
14:55	15:00	Justin Cally Sexual selection mitigates population fitness decline in stressful environments: A meta-analysis of experimental evolution studies	
15:00	15:05	Jon Evans Multivariate sexual selection on ejaculate traits under sperm competition	
15:05	15:10	Renee Firman TBC	
15:10	15:15	Clelia Gasparini It's not all about sperm: cryptic female choice driven by premating male x female interactions	
15:15	15:20	Jodie Gruber Geographic divergence of behaviour in cane toads: rapid evolution or developmental plasticity?	
15:20	15:25	Lauren Harrison Do winners win more mating opportunities?	
15:25	15:35	Questions	
15:35	16:00	Afternoon Tea	
16:00	16:05	Fonti Kar Individual variation in thermal plasticity	
16:05	16:10	Tom Keaney Kinship combats Mother's curse	
16:10	16:15	Erin Macartney Condition dependent post-copulatory traits: A meta-analysis	
16:15	16:20	Callum McDiarmid Sperm form and function in the north American red-sided garter snake <i>Thamnophis sirtalis</i>	
16:20	16:25	Kirke Munch Maternal effects impact decision-making in a viviparous lizard	
16:25	16:30	Daniel Noble The consequences of population dynamics on the invasion of infectious of disease	
16:30	16:35	Federica Poli Effects of females reproductive fluids on sperm motility in zebrafish	
16:35	16:40	Fabian Rudin The effects of the social environment on the heritability, evolvability and repeatability of behaviour	
16:40	16:45	Vicki Thomson Epigenetics of Tiger Snakes	
16:45	16:50	Heidi Wong The fitness cost of being selfish	
16:50	16:55	Zac Wylde Self-perceived dominance hierarchy effects on Cuticular hydrocarbon profiles in <i>Telostylinus angusticollis</i> (Diptera)	
16:55	17:00	Felix Zajitschek Experimental evolution of sexual conflict in <i>Drosophila melanogaster</i>	
17:00	17:10	Questions	

		WEDNESDAY 6TH DECEMBER 2017	
8:50	9:00	Opening Address (Lecture Theatre 1)	
9:00	10:00	Craig Moritz Phylogenomics, cryptic diversity and evolution of north Australian lizards	
10:00	10:30	Morning Tea	
		Macro Evolution 2 (LT 1)	Co-Evolution 2 (LT 2)
10:30	10:50	Jan Engelstaedter Jumping in trees: modeling the dynamics of parasite spread within clades of host species	Will Feeney Predation drives recurrent convergence of fish-anemone mutualisms
10:50	11:10	Emily Roycroft Conflict and confidence in phylogenomics: an example from a recent and rapid radiation	Stephen Gipson Sex differences and the condition-dependence of pathogen fitness
11:10	11:30	Janan Sykes Analysing Protein Structure Alignment Methodologies	Nate Lo Rampant host-switching shaped the termite gut microbiome
11:30	11:50	Eleanor Beavan Understanding rates of molecular evolution in eucalypts	Michael Whitehead Linking pollinator behaviour and floral evolution
11:50	12:10	Greg Jordan Evolutionary niche conservatism and relictual clades	Philip Erm Spreading populations and the evolutionary push to be pulled
12:10	12:30	Matilda Brown Out of place: anomalous conifer fossils	Iva Popovic Evolution in hot waters: Comparative genomics reveals divergent thermal selection in invasive and non-invasive marine mussels
12:30	13:10	Lunch	
		Macro Evolution 3 (LT 1)	Developmental Plasticity & Sex (LT 2)
13:10	13:30	William Sherwin Information Theory Broadens the Spectrum of Molecular Ecology and Evolution	Evatt Chirgwin How does parental environment influence the potential for adaptation to global change?
13:30	13:50		Clementine Lasne The role of intersexual genetic correlations in the evolution of male and female local adaptation
13:50	14:10	Benny Chor ultra conserved protein elements	Nathalie Feiner How do wall lizard embryos adapt to cool climate?

14:10	14:30	Cameron Hosking A Nutritionally Explicit Ecological GPU Model Exploring the Evolution of Life History Traits	Matt Hall Genetic correlations and sex-specific adaptation in changing environments
14:30	14:50	Rob Lanfear Do plants evolve differently?	Peta Hill Conserved sex-linked markers in a skink with population divergence in sex determination
14:50	15:10	David Duchene New statistical criteria for exploring phylogenetic signal across the genome	Tim Connallon Coadaptation of mitochondrial and nuclear genes, and the cost of mother's curse
15:10	15:40	Afternoon Tea	
		Social 2 (LT 1)	Phylogeography (LT 2)
15:40	16:00	Luke Holman Conserved transcriptomic effects of queen pheromones in bees and ants	Nicole Bezemer Genetic structure in <i>Eucalyptus caesia</i> , a bird-pollinated tree endemic on granite outcrops, revealed by exhaustive microsatellite genotyping of seven populations
16:00	16:20	Ben Halliwell Live Bearing Promotes The Evolution of Sociality in Squamate Reptiles	Anicee Lombal Genetic divergence between colonies of Flesh-footed Shearwater exhibiting different foraging strategies
16:20	16:40	Anna Farre Orteu Co-option of the sex differentiation cascade for caste determination in social insects	Joshua Thia Marine connectivity in time and space: Insights from an intertidal fish
16:40	16:50	FINAL WORDS	
18:00	18:30	Buses to Conference Dinner	
18:30	23:00	CONFERENCE DINNER (Willie Smiths Apple Shed)	

THURSDAY 7TH DECEMBER 2017		
8:50	9:00	Phylomania Focus
		Computational Methods
9:00	9:40	Arndt von Haeseler Fast Bootstrap approaches in IQ-Tree
9:40	10:00	Michael Woodhams What makes a good DNA mutation model?
10:00	10:20	Mathieu Fourment Bayesian variational inference in phylogenetics
10:20	10:40	Ben Kaehler Distance-Based Tree Building with Rooted Models
10:40	11:00	Morning Tea
		Algebraic Methods
11:00	11:40	Jeremy Sumner Newfangled results and musings on Lie-Markov models
11:40	12:20	Venta Terauds Maximum Likelihood Distances for Circular Genomes
12:20	12:40	John Hewson The ring of Markov invariants on two state tripod trees
12:40	13:00	Peter Jarvis How to handle trees in phylogenetics
13:00	14:00	Lunch
		Networks
14:00	14:20	Andrew Francis TBC
14:20	14:40	Momoko Hayamizu TBC
14:40	15:00	Michael Hendriksen Nonbinary Unrooted Tree-Based Networks
15:00	15:20	Barbara Holland Where to next for convergence networks?
15:20	15:40	Yao-Ban Chan Inferring incomplete lineage sorting, duplications, transfers and losses with reconciliations
15:40	16:00	Afternoon Tea
		Networking
16:00	17:00	Everyone Everything
17:00	n	PUB

FRIDAY 8TH DECEMBER 2017		
8:50	9:00	Phylomania Focus
		Ancestral States
9:00	9:40	David Bryant Dinner products and niche evolution
9:40	10:20	Nick Beeton Linearising is so PASSÉ: Approximating BiSSE for large trees
10:20	10:40	Morning Tea
		Population Genetics and Coalescent
10:40	11:20	Conrad Burden Mutation in Populations Governed by a Galton-Watson Branching Process
11:20	12:00	Bob Griffiths Genealogy of Wright-Fisher Bridges
12:00	12:20	Jonathan Mitchell Hypothesis Testing of Species Trees Under the Multispecies Coalescent
12:20	12:40	Ben Rohrlach TBC
12:40	13:40	Lunch
		Combinatorics
13:40	14:00	Ruth Davidson A combinatorial method for connecting BHV spaces representing different numbers of taxa.
14:00	14:20	Michael Charleston Tabu Sequences
14:20	14:40	Simone Linz Are cherry-picking sequences the new agreement forests?
14:40	15:00	Mike Steel Triplet covers and phylogenetic flexibility (“to be slim it helps to be thin”)
15:00	15:30	Afternoon Tea
		Origins of Life
15:40	16:20	David Liberles Evaluating the proteinness of amino acid substitution models in the development of new approaches for protein evolution
16:20	16:40	Julia Shore Substitution matrices recapitulate amino acid specificity of aaRS phylogenies
16:20	16:40	Breather
17:00	17:30	Prize Giving and Close
17:30	n	PUB