

Eunice Jingmei Tan

Assistant Professor of Science
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Yale-NUS College, Singapore

EDUCATION

PhD, BioSciences (Oct 2010 – Feb 2016)

University of Melbourne

Master of Science, Biology (Jan 2006 – Sep 2008)

National University of Singapore

Bachelor of Science (Hons), Life Sciences (Jul 2001 – Jun 2005)

National University of Singapore

RESEARCH

Postdoctoral research at Yale-NUS College (Jul 2016 – Jun 2018)

Transcriptomics analyses to discover the mechanisms involved in the development of visual signals and mating behaviour in butterflies

PhD research at the University of Melbourne (Nov 2010 – Feb 2016)

Evolution of chrysoline leaf beetles using comparative data analyses and field experiments

Immunology research at the Walter and Eliza Hall Institute of Medical Research, Melbourne (Oct 2013 – Apr 2016)

Image analyses of cell division and apoptosis

Fairy penguin census (Apr 2016)

Penguin tagging and measurements at Phillip Island Nature Park, Australia

Kangaroo census (Apr 2011 – Apr 2012)

Field survey of kangaroos and wallabies at Puckapunyal reserve in Victoria, Australia

Master of Science research, National University of Singapore (2006 – 2008)

Dissertation on the function of web decorations of spiders from the genus *Cyclosa* from field studies and experiments

Research assistant, Department of Biochemistry, NUS (Jul – Dec 2005)

Human neural cell culture and experiments

Honours research project, NUS (Jul 2004 – May 2005)

Dissertation on the paternity analysis of the moss *Pogonatum macrophyllum*, using microsatellite markers

Undergraduate Research Program, NUS (2004)

Protein production and interaction with glial cells

Student internship, Institute of Molecular and Cell Biology, Singapore (May- Jul 2003)

Cloning of the Fugu genome

AWARDS AND GRANTS

- National Geographic Explorer's Grant, 2018 (USD 29,989).
- Endeavour Australian Postgraduate Award International, 2010 – 2014.
- International Postgraduate Research Scholarship, 2010 – 2014.
- Holsworth Wildlife Research Endowment, 2011 – 2013. (AUD 12,400).
- International Society for Behavioural Ecology Travel Award 2012 (USD 2,000).
- Melbourne Abroad Travelling Scholarship 2012 (AUD 1,487)
- Drummond Travel Award 2012 (AUD 950)
- M. A. Bartlett Research Scholarship 2012 (AUD 200)
- Best Student Poster at the Australasian Society for Animal Behaviour 2012 Conference, Geelong, Australia
- Best Student Poster at the Australasian Society for Animal Behaviour 2011 Conference, Adelaide, Australia
- National University of Singapore, Graduate Research Scholarship (2006 – 2008)
- Best Oral Presenter for Biodiversity Theme at the 12th Biological Sciences Graduate Congress, University of Malaya, Malaysia (2007)

SELECTED PRESENTATIONS

Tan, E. J. Reid, C. A. M., Symonds, M. R. E., Elgar, M. A. (2018) Evolution of colour patterns in Australian chrysomelids. Evolution 2018 Conference, Montpellier, France.

Tan, E. J. (2018) Ecology and evolution of visual signals. Invited talk at University Brunei Darussalam, Brunei. 17th July 2018.

Tan, E. J. (2018) Ecological interactions of stick insects. Invited talk at the National Wildlife Forensic Laboratory, Kuala Lumpur, Malaysia. 7th June 2018.

Tan, E. J. (2017) Field studies in ecology and evolution. Invited talk at STEM Conference for Women, United World College, Southeast Asia. 16th September 2017.

Tan, E. J. (2017) Impact of forest fires on ecology and biodiversity. Invited talk at Conservation Week, the Republic Polytechnic, Singapore. 25th July, 2017.

Tan, E. J., Reid, C. A. M., Elgar, M. A. (2015) The evolution of chrysomelid colour patterns. Invited talk at the Museum of Comparative Zoology, Harvard University, United States, 7th July 2015.

Tan, E. J., Jurado-Rivera J.A., Reid, C. A. M., Elgar, M. A. (2014) Effect of signal environment on colour patterns. International Society for Behavioural Ecology 2014 Conference, New York, United States.

Tan, E. J., Reid, C. A. M., Elgar, M. A. (2013) Aggregation for survival. Australasian Society for the Study of Animal Behaviour Conference, Auckland, New Zealand.

Tan, E. J., Reid, C. A. M., Elgar, M. A. (2012) The evolution of signal strategies in chrysomelid larvae: age dependent diversity. 14th International Behavioural Ecology Congress, Lund, Sweden.

Tan, E. J., and Li, D. (2011) Functional significance of web decorations. Australasian Society for the Study of Animal Behaviour Conference, Geelong, Australia.

Tan, E. J., and Li, D. (2007) Functional significance of web decorations in spiders of the genus *Cyclosa*. 17th International Society of Arachnology Congress Proceedings, Sao Pedro, Brazil.

Tan, E. J., and Li, D. (2007) Functional significance of web decorations in spiders of the genus *Cyclosa*. 12th Biological Sciences Graduate Congress, University of Malaya, Malaysia.

PUBLICATIONS

Tan, E. J., Reid, C.A.M., Symonds, M.R.E., Jurado-Rivera, J.A., and Elgar, M.A. (2017). The role of life-history and ecology in the evolution of colour patterns in Australian chrysomeline beetles. *Frontiers in Ecology and Evolution*, **5**, 140.

Tan, E. J., Reid, C.A.M., Elgar, M. A. (2017) Predators, parasites and heterospecific aggregations in chrysomeline larvae. *Ethology*, **123**, 293-306.

Tan, E. J., Reid, C.A.M., Elgar, M. A. (2016) Colour pattern variation affects predation in chrysomeline larvae. *Animal Behaviour*, **118**, 3-10.

Conversano, J., **Tan, E. J.**, van Wilgenburg, E., Elgar, M. A. (2014) Background odour may impair detection of chemical signals for social recognition. *Austral Entomology*, **53**, 432-435.

Tan, E. J., Seah, S. W.H., Yap, L. Y. L., Goh, P. M., Gan, W., Liu, F. and Li, D. (2010) Why do orb-weaving spiders (*Cyclosa ginnaga*) decorate their webs with silk spirals and plant detritus? *Animal Behaviour*, **79**, 179-186.

Tan, E. J., and Li, D. (2009) Detritus decorations of an orb-weaving spider, *Cyclosa mulmeinensis* (Thorell): for food or camouflage? *The Journal of Experimental Biology*, **212**, 1832-1839.

Tan, E. J., and Tang, B. L. (2006) Looking for Food: Molecular neuroethology of invertebrate feeding behavior. *Ethology*, **112**, 826-832.
Modified as a figure in Perspectives on animal behaviour (2010), (ed. Goodenough, Mcguire, Jakob); *Figure 3.9*.

EDITORIAL EXPERIENCE

- Review Editor, *Frontiers in Ecology and Evolution* (2017-Current)
- Reviewer, *Ecology and Evolution*
- Reviewer, *OIKOS*

ORGANISATIONAL EXPERIENCE

- Organisation board, STEM Innovation Conference Yale-NUS College, 27-28 April 2017.
- Organiser, Melbourne-Monash Postgraduate Conference, University of Melbourne, 25 May '12.
- Coordinator, Behaviour and Evolution Research Group, University of Melbourne, Feb '12 – Feb '13.
- Coordinator, NUS Biodiversity and Ecology Journal Club, Feb '07 – Feb '08.

FURTHER SKILLS

- Statistical analysis and image processing in MATLAB
- Statistical analyses in R
- Data extraction using Python
- Transcriptomics analyses in Unix
- Statistical analysis in JMP
- Image analysis in ImageJ
- Image editing and analysis in Adobe Photoshop