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EMI TANAKA

education

PhD, Statistics

Statistical Methods for Improving Motif Evaluation

Supervisor: Dr. Uri Keich

School of Mathematics and Statistics

The University of Sydney

2015 | Sydney, Australia

BSci (Adv Maths), Honour I

Major in Mathematics and Statistics

The University of Sydney

2010 | Sydney, Australia

publications

Tanaka E (2020). "Simple outlier detection for a multi-environmental field trial." *Biometrics*. ISSN 0006-341X, 1541-0420, doi: 10.1111/biom.13216 (URL: <https://doi.org/10.1111/biom.13216>).

Tanaka E, Hui FKC (2019). "Symbolic Formulae for Linear Mixed Models." In *Statistics and Data Science*, 3-21. doi: 10.1007/978-981-15-1960-4_1 (URL: https://doi.org/10.1007/978-981-15-1960-4_1).

Norman A, Taylor J, Tanaka E, Telfer P, Edwards J, Martinant J, Kuchel H (2017). "Increased genomic prediction accuracy in sheep breeding using a large Australian panel." *TAG. Theoretical and applied genetics. Theoretische und angewandte Genetik* 2543-2555. ISSN 0040-5752, 1432-2242, doi: 10.1007/s00122-017-2975-4 (URL: <https://doi.org/10.1007/s00122-017-2975-4>).

Tanaka E, Ral JF, Li S, Gaire R, Cavanagh CR, Cullis BR, Whan A (2017). "Increased accuracy of starch granule type classification using mixture distributions." *Plant methods*, 13, 107. ISSN 1746-4811, doi: 10.1186/s13007-017-0259-2 (URL: <https://doi.org/10.1186/s13007-017-0259-2>).

Hui FKC, Tanaka E, Warton DI (2018). "Order selection and sparsity in latent variable models via the ordered factor Lasso." *Biometrics*, 74(4), 1311-1319. ISSN 0006-341X, 1541-0420, doi: 10.1111/biom.12888 (URL: <https://doi.org/10.1111/biom.12888>).

Tanaka E, Bailey TL, Keich U (2014). "Improving MEME via a two-tiered significance analysis." *Bioinformatics*, 30(14), 1367-1377. ISSN 1367-4803, 1367-4811, doi: 10.1093/bioinformatics/btu163 (URL: <https://doi.org/10.1093/bioinformatics/btu163>).

Liachko I, Tanaka E, Cox K, Chung SCC, Yang L, Seher A, Hallas L, Cha E, Kang G, Pace H, Barrow J, Inada M, Tye A (2011). "Novel features of ARS selection in budding yeast *Lachancea kluyveri*." *BMC genomics*, 12, 633. ISSN 1471-2164, doi: 10.1186/1471-2164-12-633 (URL: <https://doi.org/10.1186/1471-2164-12-633>).

Tanaka E, Bailey T, Grant CE, Noble WS, Keich U (2011). "Improved similarity scores for comparing motifs." *Bioinformatics*, 27(12), 1603-1609. ISSN 1367-4803, 1367-4811, doi: 10.1093/bioinformatics/btr257 (URL: <https://doi.org/10.1093/bioinformatics/btr257>).

presentations

presentations

workshops

awards & distinctions

2018	Sydney Institute of Agriculture Research Project Grant Competitive grant with 36% success rate.	\$90,000
2011	SSA NSW Branch J. B. Douglas Award Prize Each school/department in NSW nominates one near-final or recently-completed postgraduate student then the nominated student is required to make a 15-20 minute presentation to the audience and judging panel, followed by 5 minutes of questions. I was nominated in the second year of my Ph.D. candidature (almost all nominated students are 3rd or 4th year Ph.D. students) and I won second prize.	\$500
2010	Winter School Student Travel Bursaries Selected by Selection Committee of Winter School in Mathematical & Computational Biology to attend Winter School in Mathematical & Computational Biology 2011, University of Queensland, Queensland.	\$250
2010	Statistical Society of Australia Inc. Student Travel Grant Selected by Statistical Society of Australia NSW Branch Council to attend the Australian Statistical Conference 2010, Fremantle, Australia.	\$300
2010	Australian Postgraduate Award Funded by the Australian Federal Government and awarded to students of exceptional research potential.	\$78,750
2008	Dean's List for Academic Excellence Awarded for academic excellence.	
2008	Tim Brown Prize II The Tim Brown Prize II is awarded for proficiency in Senior Statistics at the School of Mathematics and Statistics, The University of Sydney.	\$275
2008	Barker Scholarship IV Awarded for proficiency in Senior units of study in the School of Mathematics and Statistics at the School of Mathematics and Statistics, The University of Sydney.	\$750