Tyler V. Kent

Contact Department of Ecology and Evolutionary Biology tyler.kent@mail.utoronto.ca Information University of Toronto Website: tvkent.github.io 25 Willcocks St. Twitter: @tylervkent Toronto, ON M5S 3B2 Github: tykent EDUCATION Ph.D., Ecology and Evolutionary Biology 2015-present University of Toronto Advisor: Dr. Stephen I. Wright Thesis: Genome evolution after major transitions in Brassicaceae B.S., Genetics and Genomics 2015 Minor in Statistics University of California, Davis Advisor: Dr. Jeffrey Ross-Ibarra Affiliations Visiting Graduate Student 2021-present Whitlock Lab Department of Zoology, University of British Columbia SELECTED NSERC Post-Graduate Scholarship, Doctoral (PGS-D) \$42,000 2019-2020 HONOURS AND Faculty of Arts and Science Top Doctoral Fellowship \$115,000 2015-2019 Awards University of Toronto Faculty of Arts and Science University of Toronto EEB Outstanding Teaching Assistant Award \$100 2018 Nominated by undergraduates in EEB323: Evolutionary Genetics 2018 Ramsay Wright Award Honourable Mention \$250 University of Toronto EEB, for academic achievement and departmental contributions 2017 Society for Molecular Biology and Evolution (SMBE) Registration Award \$395 Evolutionary Genomics of Sex Travel Award \$550 2016 American Genetic Association and Arizona State University 2015 Ecology and Evolutionary Biology Entrance Award \$3,000 Department of Ecology and Evolutionary Biology, University of Toronto 2015 Citation for Outstanding Performance College of Biological Sciences, UC Davis

PUBLICATIONS

Kryvokhyzha D, Salcedo A, Eriksson MC, Duan T, Tawari N, Chen J, Guerrina M, Kreiner JM, **Kent TV**, Lagercrantz U, Stinchcombe JR, Glémin S, Wright SI, Lascoux M (2019)

Parental legacy, demography, and admixture influenced the evolution of the two subgenomes of the tetraploid *Capsella bursa-pastoris* (Brassicaceae).

PLoS Genetics 15(2): e1007949. doi: 10.1371/journal.pgen.1007949

Kent TV, Uzunović J, Wright SI (2017) Coevolution of transposable elements and recombination. Philosophical Transactions of the Royal Society B Volume 372, Issue 1736. doi: 10.1098/rstb.2016.0458

Sas C, Muller F, Kappel C, Kent TV, Wright SI, Hilker M, Lenhard M (2016)

Repeated inactivation of the first committed enzyme underlies the loss of benzaldehyde emission after the selfing-transition in Capsella. Current Biology Volume 26, Issue 24, p33133319. doi: 10.1016/j.cub.2016.10.026 Durvasula A, Hoffman P, Kent TV, Liu C, Kono T, Morrell P, Ross-Ibarra J (2016) ANGSD-wrapper: utilities for analyzing next generation sequencing data. Molecular Ecology Resources 16: 14491454. doi: 10.1111/1755-0998.12578 Kent TV, Brandvain Y, Wright SI 2022 Genome structure drives the landscape of introgression from selfing into outcrossing Capsella Talk at European Society for Evolutionary Biology (ESEB), Prague, Czech Republic. 2022 Kent TV, Brandvain Y, Wright SI Genome structure drives the landscape of introgression from selfing into outcrossing Capsella Talk at Evolution (virtual). Kent TV, Platts A, Wright SI, and the BMAP Consortium Cancelled due to Covid19 Repeated polyploidization in the Brassicaceae drives both independent and convergent responses of selection and genome architecture Talk at Society for Molecular Biology and Evolution (SMBE), Quebec City, Canada. 2019 Kent TV, Platts A, Wright SI, and the BMAP Consortium Conserved sequence evolution and polyploidy in 32 Brassicales genomes Poster at Society for Molecular Biology and Evolution (SMBE), Manchester, England 2019 Kent TV, Platts A, Wright SI, and the BMAP Consortium Genome evolution after whole genome duplication in 32 Brassicales species: Ghosts of polyploidy past Talk at the Atwood Colloquium in Ecology and Evolutionary Biology, Toronto, Canada Kent TV, Wright SI, and the BMAP Consortium 2018 Genome evolution after whole genome duplication in 32 Brassicales species Talk at the Second Joint Congress on Evolutionary Biology, Montpellier, France Kent TV, Wright SI, and the BMAP Consortium 2017 Poster at Midwest PopGen, East Lansing MI Kent TV, Wright SI, and the BMAP Consortium 2017 Poster at SMBE, Austin TX Kent TV and Wright SI 2016 Mutation load within a selfing allotetraploid Talk at Evolutionary Genomics of Sex, Tempe AZ Kent TV and Wright SI 2016 How does mating system affect linked selection in Capsella? Poster at The Allied Genetics Conference, Orlando FL 2014 Durvasula A, Kent TV, Bhadra-Lobo S, Ross-Ibarra J ANGSD-wrapper: scripts to streamline and visualize NGS population genetics analysis Poster at Bay Area Population Genomics (BAPG) XI meeting, UC Davis

NON-PEER REVIEWED PUBLICATIONS

Presentations

Kent TV (2016) TAGC16 Shorts: the bursting bubble of harmful mutations. Genes to Genomes: a blog from the Genetics Society of America. Contributed article. http://genestogenomes.org/tagc16-shorts-the-bursting-bubble-of-harmful-mutations/

SOFTWARE ANGSD-wrapper (https://github.com/ANGSD-wrapper/angsd-wrapper)

Teaching	Teaching Assistant (marking), BIO120 Adaptation and Biodiversity, (U of T)	Fall 2020, 2021
	Teaching Assistant, EEB323 Evolutionary Genetics, (U of T)	Fall 2017, 2018, 2019
	Course Development, EEB323 Evolutionary Genetics, (U of T)	Summer 2018
	Teaching Assistant, BIO251 Plant Form, Function, and Development, (U of T)	Winter 2018
	Teaching Assistant, BIO120 Adaptation and Biodiversity, (U of T)	Fall 2015, 2016
	Learning Assistant, BIS2B Principles of Ecology and Evolution, (UC Davis)	Fall 2012
MENTORSHIP	Gwendolyn Clark, VIC One program (VIC170), U of T	Winter 2018
JOURNAL SERVICE	Preprint Editorial Team, Proceedings of the Royal Society B Plant Biology Section & Bioinformatics Section Leader	2019-present
	Reviewer: Genome Biology and Evolution (2); Molecular Biology and Evolution (3); G3: Genes, Genomes,	
	Genetics; Molecular Ecology (4); Heredity; Molecular Biology Reports (2)	, ,
SERVICE & OUTREACH	EEB Graduate Student Association (EGSA) IT Representative (elected), U of T	2017-2020
	Newsletter Editor and webmaster, The EEB Quarterly	2018-present
	EEB department twitter moderator (@eebtoronto), U of T	2017-2020
	Panelist, EEB NSERC award application graduate student panel, U of T	2018, 2019
	Volunteer at FACT-B Talk on Biodiversity (social media), Royal Ontario Museum	2019
	EGSA Atwood Colloquium Chair (elected), U of T	2018-2019
	Atwood Lecturer search committee, U of T	2015-2017, 2019
	Organizer of (Re)Views: A reviews-based journal club	2016, 2018
	Session moderator, Atwood Colloquium in Ecology and Evolution, U of T	2018
	Volunteer at AGA Presidential Symposium, U of T	2018
	EGSA Secretary (elected), U of T	2017-2018
	Volunteer at EEB booth for Science Rendezvous at the University of Toronto	2017
	Co-leader of EEB Summer Book Club at the U of T	2017
	EGSA co-chair for Student Journal Club (elected), U of T	2016-2017