

Tyler V. Kent

CONTACT INFORMATION

Phone: +1-647-745-2248
tvkent@unc.edu
Website: tvkent.github.io
Twitter: @tylervkent
Github: tvkent

EMPLOYMENT

Postdoctoral Research Associate 2022-present
University of North Carolina at Chapel Hill
Advisors: Dr. Daniel Matute and Dr. Dan Schrider

EDUCATION

Ph.D., Ecology and Evolutionary Biology defence Jan 2023
University of Toronto
Thesis: Evolutionary consequences of plant genome structure
Advisor: Dr. Stephen I. Wright

B.S., Genetics and Genomics 2015
Minor in Statistics
University of California, Davis
Advisor: Dr. Jeffrey Ross-Ibarra

SELECTED HONOURS AND AWARDS

NSERC Post-Graduate Scholarship, Doctoral (PGS-D) \$42,000 2019-2020

Faculty of Arts and Science Top Doctoral Fellowship \$115,000 2015-2019
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

Ramsay Wright Award Honourable Mention \$250 2018
University of Toronto EEB, for academic achievement and departmental contributions

Society for Molecular Biology and Evolution (SMBE) Registration Award \$395 2017

Evolutionary Genomics of Sex Travel Award \$550 2016
American Genetic Association and Arizona State University

Ecology and Evolutionary Biology Entrance Award \$3,000 2015
Department of Ecology and Evolutionary Biology, University of Toronto

Citation for Outstanding Performance 2015
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

* contributed equally

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

PUBLICATIONS IN
PREP

Kent TV, Brandvain Y, Wright SI
 Genome structure shapes patterns of introgression from *Capsella rubella* to *Capsella grandiflora*.

Kent TV*, Platts AE*, Edger PP*, Choi JY, Zhao T, Maumus F, Washburn J, Shu S, An H, Mayfield-Jones D, Blanchette M, Bird KA, Dismukes W, Abrahams RS, Mummenhoff K, Berry K, Goodstein DM, Yoshinga Y, Daum C, Spunde A, Davidson P, Oakgrove K, Peng Y, Phillips J, Kudrna D, Talag J, Mabry ME, Al-Shehbaz I, Cappa JJ, Purugganan M, Pilon-Smits EA, Pepper AE, Schranz ME, Schmutz J, Weigel D, Mitchell-Olds T, Hall J, Koch MA, Wing RA, Pires JC, Wright SI
 Comparative genomics of whole genome duplication in 32 species of the Brassicales.
 * contributed equally

Kent TV, Wright SI
 Patterns of diversity and linked selection in *Rumex hastatulus*.

PRESENTATIONS

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.

Kent TV, Brandvain Y, Wright SI 2022
 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.

Kent TV, Platts A, Wright SI, and the BMAP Consortium 2019
 Conserved sequence evolution and polyploidy in 32 Brassicales genomes
 Poster at Society for Molecular Biology and Evolution (SMBE), Manchester, England

Kent TV, Platts A, Wright SI, and the BMAP Consortium 2019
 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 How does mating system affect linked selection in <i>Capsella</i> ? Poster at The Allied Genetics Conference, Orlando FL	2016
	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	2014
NON-PEER REVIEWED PUBLICATIONS	Kent TV (2016) TAGC16 Shorts: the bursting bubble of harmful mutations. <i>Genes to Genomes: a blog from the Genetics Society of America</i> . 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, <i>Proceedings of the Royal Society B</i> Plant Biology Section & Bioinformatics Section Leader Reviewer: <i>Genome Biology and Evolution</i> ; <i>Molecular Biology and Evolution</i> ; <i>G3: Genes, Genomes, Genetics</i> ; <i>Molecular Ecology</i> ; <i>Heredity</i> ; <i>Molecular Biology Reports</i>	2019-present
DEPARTMENT SERVICE & OUTREACH	EEB Graduate Student Association (EGSA) IT Representative (elected), U of T	2017-2020
	Newsletter Editor and webmaster, <i>The EEB Quarterly</i>	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