

Tyler V. Kent

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| CONTACT INFORMATION | Department of Ecology and Evolutionary Biology University of Toronto 25 Willcocks St. Toronto, ON M5S 3B2 | tyler.kent@mail.utoronto.ca Website: tvkent.github.io Twitter: @tylervkent Github: tvkent |
| EDUCATION | Ph.D., Ecology and Evolutionary Biology University of Toronto Advisor: Dr. Stephen I. Wright Thesis: <i>Genome evolution after whole genome duplication</i> | 2015-present |
| | B.S., Genetics and Genomics Minor in Statistics University of California, Davis Advisor: Dr. Jeffrey Ross-Ibarra | June 2015 |
| SELECTED HONOURS AND AWARDS | NSERC Post-Graduate Scholarship, Doctoral (PGS-D) <i>\$42,000</i> Faculty of Arts and Science Top Doctoral Fellowship <i>\$115,000</i> University of Toronto Faculty of Arts and Science University of Toronto EEB Outstanding Teaching Assistant Award <i>\$100</i> Nominated by undergraduates in EEB323: Evolutionary Genetics Ramsay Wright Award Honourable Mention <i>\$250</i> University of Toronto EEB, for academic achievement and departmental contributions Society for Molecular Biology and Evolution (SMBE) Registration Award <i>\$395</i> Evolutionary Genomics of Sex Travel Award <i>\$550</i> American Genetic Association and Arizona State University Ecology and Evolutionary Biology Entrance Award <i>\$3,000</i> Department of Ecology and Evolutionary Biology, University of Toronto Citation for Outstanding Performance College of Biological Sciences, UC Davis | 2019-2020 2015-2019 2018 2018 2017 2016 2015 2015 |
| 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 <i>Capsella bursa-pastoris</i> (Brassicaceae). <i>PLoS Genetics</i> 15(2): e1007949. doi: 10.1371/journal.pgen.1007949 Kent TV , Uzunović J, Wright SI (2017) Coevolution of transposable elements and recombination. <i>Philosophical Transactions of the Royal Society B</i> 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 <i>Capsella</i> . <i>Current Biology</i> 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. <i>Molecular Ecology Resources</i> 16: 14491454. doi: 10.1111/1755-0998.12578 | |

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| PRESENTATIONS | 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 | 2016 |
| | How does mating system affect linked selection in <i>Capsella</i> ? | |
| | Poster at The Allied Genetics Conference, Orlando FL | |
| | Durvasula A, Kent TV , Bhadra-Lobo S, Ross-Ibarra J | 2014 |
| | ANGSD-wrapper: scripts to streamline and visualize NGS population genetics analysis | |
| | Poster at Bay Area Population Genomics (BAPG) XI meeting, UC Davis | |
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| 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, 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), University of Toronto | Winter 2018 |

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| JOURNAL SERVICE | Preprint Editorial Team, <i>Proceedings of the Royal Society B</i> Plant Biology Section & Bioinformatics Section Leader | 2019-present |
| | Reviewer: <i>Molecular Biology and Evolution</i> ; <i>G3: Genes, Genomes, Genetics</i> ; <i>Heredity</i> ; <i>Molecular Biology Reports</i> | |
| SCIENCE OUTREACH | EEB Graduate Student Association (EGSA) IT Representative (elected), U of T | 2017-2020 |
| | Editor and webmaster, <i>The EEB Quarterly</i> | 2018-present |
| | EEB department twitter moderator (@eebtoronto), U of T | 2017-present |
| | 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, University of Toronto | 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 |