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## ACADEMIC EMPLOYMENT

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<b>Associate Professor</b> Department of Biological Sciences University of Idaho, Moscow, ID	<b>July 2014-present</b>
<b>Director, Stillinger Herbarium</b> University of Idaho, Moscow, ID	<b>July 2008-present</b>
<b>Director, Bioinformatics and Computational Biology Graduate Program</b> University of Idaho, Moscow, ID	<b>July 2018-present</b>
<b>Interim Director, Bioinformatics and Computational Biology Graduate Program</b> University of Idaho, Moscow, ID	<b>August 2016-January 2017</b>
<b>Assistant Professor</b> Department of Biological Sciences University of Idaho, Moscow, ID	<b>August 2013-June 2014</b>
<b>Assistant Professor</b> Department of Forest, Rangeland and Fire Sciences University of Idaho, Moscow, ID	<b>July 2008-August 2013</b>
<b>Postdoctoral Associate</b> Division of Botany, Peabody Museum of Natural History Yale University, New Haven, CT Supervisor: Dr. Michael Donoghue	<b>2006-2008</b>
<b>Interim Collections Manager</b> Division of Botany, Peabody Museum of Natural History Yale University, New Haven, CT	<b>2007</b>
<b>Lecturer</b> Department of Ecology & Evolutionary Biology Yale University, New Haven, CT	<b>2007</b>

## EDUCATION

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<b>PhD, Botany</b> University of Washington, Seattle, WA Advisor: Dr. Richard Olmstead dissertation - Molecular phylogenetics of <i>Castilleja</i> and Castillejinae (Orobanchaceae)	<b>2006</b>
<b>MS, Botany &amp; Plant Pathology; Specialization in Ecology, Evolutionary Biology &amp; Behavior</b> Michigan State University, East Lansing, MI Advisor: Dr. Tao Sang thesis - Evolution and phylogenetic utility of low-copy nuclear genes: examples from conifers and peonies	<b>2000</b>
<b>BS, Botany &amp; Plant Pathology; with honors, summa cum laude</b> Michigan State University, East Lansing, MI	<b>1998</b>

## PUBLICATIONS (\*INDICATES STUDENT COAUTHOR; \*INDICATES EQUAL CONTRIBUTION)

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### PEER REVIEWED PAPERS PUBLISHED OR IN PRESS (GOOGLE SCHOLAR PROFILE — [HTTPS://GOO.GL/RAFRRR](https://goo.gl/rafrrr)):

- Morales-Briones, DF<sup>†</sup>, K Romoleroux, and **DC Tank**. 2019. Three new species of *Lachemilla* (Rosaceae) from South America. *PhytoKeys*, in press.
- Marx, HE<sup>†</sup>, M Richards<sup>†</sup>, GM Johnson<sup>†</sup>, and **DC Tank**. 2019. Increasing phylogenetic stochasticity at high elevations on summits across a remote North American wilderness. *American Journal of Botany*, in press. doi: 10.1002/ajb2.1328.
- Jacobs, SJ<sup>†</sup>, S Herzog<sup>†</sup>, and **DC Tank**. 2019. Quantifying morphological variation in the *Castilleja pilosa* species complex (Orobanchaceae). *PeerJ* 7: e7090. doi: 10.7717/peerj.7090.

51. Martine, CT\*, IE Jordon-Thaden\*, AJ McDonnell\*, JT Cantley\*, DS Hayes, MD Roche, ES Frawley, IS Gilman†, and **DC Tank\***. 2019. Phylogeny of the Australian *Solanum dioicum* group using seven nuclear genes, with consideration of Symon's fruit and seed dispersal hypotheses. PLoS ONE 14: e0207564. doi: 10.1371/journal.pone.0207564.
50. Morales-Briones, DF† and **DC Tank**. 2019. Extensive allopolyploidy in the neotropical genus *Lachemilla* (Rosaceae) revealed by PCR-based target enrichment of the nuclear ribosomal DNA cistron and plastid phylogenomics. American Journal of Botany 106: 415-437. doi: 10.1002/ajb2.1253.
49. Sullivan, J, ML Smith, A Espíndola, M Ruffley†, AM Rankin, **DC Tank**, and BC Carstens. 2019. Integrating life history traits into predictive phylogeography. Molecular Ecology 28: 2062-2073. doi: 10.1111/mec.15029.
48. Ruffley, M†, SJ Jacobs†, GM Johnson†, SME Mortimer†, and **DC Tank**. 2018. Noteworthy Collection: *Isoetes minima* from Idaho. Madroño 65: 157-158. doi: 10.3120/0024-9637-65.4.157.
47. Pelletier, TA, BC Carstens, **DC Tank**, J Sullivan, and A Espíndola. 2018. Predicting plant conservation priorities on a global scale. Proceedings of the National Academy of Sciences 115: 13027-13032. doi: 10.1073/pnas.1804098115.
46. Gilman, IS† and **DC Tank**. 2018. Species tree estimation using ddRADseq data from historical specimens confirms the monophyly of highly disjunct species of *Chloropyron* (Orobanchaceae). Systematic Botany 43: 701-708. doi: 10.1600/036364418X697418.
45. Blischak, PD, M Latvis, DF Morales-Briones†, JC Johnson, VS Di Stilio, AD Wolfe, and **DC Tank**. 2018. Fluidigm2PURA: automated processing and haplotype inference for double-barcoded PCR amplicons. Applications in Plant Sciences 6: e01156. doi: 10.1002/aps3.1156.
44. Smith, ML, M Ruffley†, AM Rankin, A Espíndola, **DC Tank**, J Sullivan, and BC Carstens. 2018. Testing for the presence of cryptic diversity in tail-dropper slugs (*Prophyaon*) using molecular data. Biological Journal of the Linnean Society 124: 518-532. doi: 10.1093/biolinnean/bly067.
43. Jacobs, SJ†, C Kristoferson†, S Uribe-Convers†, M Latvis, and **DC Tank**. 2018. Incongruence in molecular species delimitation schemes: what to do when adding more data is difficult. Molecular Ecology 27: 2397-2413. doi: 10.1111/mec.14590.
42. Morales-Briones, DF†, A Liston, and **DC Tank**. 2018b. Phylogenomic analyses reveal a deep history of hybridization in the Neotropical genus *Lachemilla* (Rosaceae). New Phytologist, 218: 1668-1684. doi: 10.1111/nph.15099.
41. Landis, JB, DE Soltis, L Zheng, HE Marx, MS Barker, **DC Tank**, and PS Soltis. 2018. Impact of whole-genome duplication events on diversification rates in angiosperms. American Journal of Botany, 105: 348-363. doi: 10.1002/ajb2.1060.
40. Ruffley, M†, ML Smith, A Espíndola, BC Carstens, J Sullivan, and **DC Tank**. 2018. Combining allele frequency and tree-based approaches improves phylogeographic inference from natural history collections. Molecular Ecology 27: 1012-1024. doi: 10.1111/mec.14491.
39. Morales-Briones, DF†, K Romoleroux, F Kolář, and **DC Tank**. 2018a. Phylogeny and evolution of the neotropical radiation of *Lachemilla* (Rosaceae): uncovering a history of reticulate evolution and implications for infrageneric classification. Systematic Botany 43: 17-34. doi: 10.1600/036364418X696897.
38. Latvis, M, SJ Jacobs†, SME Mortimer†, M Richards†, PD Blischak, S Mathews, and **DC Tank**. 2017. Primers for *Castilleja* and their utility across Orobanchaceae: II. Single-copy nuclear loci. Applications in Plant Sciences 5: 1700038. doi: 10.3732/apps.1700038.
37. Latvis, M, SME Mortimer†, DF Morales-Briones†, S Torpey†, S Uribe-Convers†, SJ Jacobs†, S Mathews, and **DC Tank**. 2017. Primers for *Castilleja* and their utility across Orobanchaceae: I. Chloroplast primers. Applications in Plant Sciences 5: 1700020. doi: 10.3732/apps.1700020.
36. Marx HE†, C Dentant, J Renaud, R Delunel, **DC Tank**, and S Lavergne. 2017. Riders in the sky (islands): Using a mega-phylogenetic approach to understand plant species distribution and coexistence at the altitudinal limits of angiosperm plant life. Journal of Biogeography 44: 2618-2630. doi: 10.1111/jbi.13073
35. Smith, M, A Espíndola, M Ruffley†, **DC Tank**, JM Sullivan, and B Carstens. 2017. Demographic Model Selection using Random Forests and the Site Frequency Spectrum. Molecular Ecology 26:4562-4573. doi: 10.1111/mec.14223.
34. Espíndola, A, M Ruffley†, M Smith, B Carstens, **DC Tank**, and JM Sullivan. 2016. Identifying cryptic diversity with predictive phylogeography. Proceedings of the Royal Society B 283: 20161529. doi: 10.1098/rspb.2016.1529.
33. Uribe-Convers, S† and **DC Tank**. 2016. Phylogenetic revision of the genus *Bartsia* (Orobanchaceae): disjunct distributions correlate to independent lineages. Systematic Botany 41: 672-684. doi: 10.1600/036364416X692299.

32. Angiosperm Phylogeny Group (Byng JW, MW Chase, MJ Christenhusz, MF Fay, WS Judd, DJ Mabberley, AN Sennikov, DE Soltis, PS Soltis, PF Stevens, who were equally responsible and listed here in alphabetical order only, with contributions from B Briggs, S Brockington, A Chautems, JC Clark, J Conran, E Haston, M Moeller, M Moore, RG Olmstead, M Perret, L Skog, J Smith, **DC Tank**, M Vorontsova, and A Weber, in alphabetical order). 2016. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG IV. *Botanical Journal of the Linnean Society* 181: 1-20. doi: 10.1111/boj.12385.
31. Uribe-Convers, S<sup>†</sup>, ML Settles, and **DC Tank**. 2016. A Phylogenomic Approach Based on PCR Target Enrichment and High Throughput Sequencing: Resolving the Diversity within the South American Species of *Bartsia* L. (Orobanchaceae). *PLoS ONE* 11(2): e0148203. doi:10.1371/journal.pone.0148203.
30. Marx, HE<sup>†</sup>, DE Giblin, PW Dunwiddie, and **DC Tank**. 2016. Deconstructing Darwin's Naturalization Conundrum in the San Juan Islands using community phylogenetics and functional traits. *Diversity and Distributions* 22: 318–331. doi: 10.1111/ddi.12401.
29. Uribe-Convers, S<sup>†</sup> and **DC Tank**. 2015. Shifts in diversification rates linked to biogeographic movement into new areas: An example of a recent radiation in the Andes. *American Journal of Botany* 102: 1854-1869. doi: 10.3732/ajb.1500229.
28. **Tank, DC**, JM Eastman, MW Pennell, PS Soltis, DE Soltis, CE Hinchliff, JW Brown, EB Sessa, and LJ Harmon. 2015. Nested radiations and the pulse of angiosperm diversification: increased diversification rates often follow whole genome duplications. *New Phytologist* 207: 454-467. doi: 10.1111/nph.13491.
27. Zanne, AE, **DC Tank**, WK Cornwell, JM Eastman, SA Smith, RG FitzJohn, DJ McGlinn, BC O'Meara, AT Moles, DL Royer, IJ Wright, L Aarssen, RI Bertin, A Calaminus, R Govaerts, F Hemmings, MR Leishman, J Oleksyn, PB Reich, DE Soltis, PS Soltis, PF Stevens, NG Swenson, L Warman, M Westoby, and JM Beaulieu. 2015. Zanne et al. reply [to E. J. Edwards, J. M. de Vos & M. J. Donoghue *Nature* 521: E5-E6]. *Nature* 521: E6-E7. doi: 10.1038/nature14394.
26. Zanne, AE, **DC Tank**, WK Cornwell, JM Eastman, SA Smith, RG FitzJohn, DJ McGlinn, BC O'Meara, AT Moles, DL Royer, IJ Wright, L Aarssen, RI Bertin, A Calaminus, R Govaerts, F Hemmings, MR Leishman, J Oleksyn, PB Reich, DE Soltis, PS Soltis, PF Stevens, NG Swenson, L Warman, M Westoby, and JM Beaulieu. 2015. Corrigendum: Three keys to the radiation of angiosperms into freezing environments. *Nature* 521: 380. doi: 10.1038/nature14371.
25. Nürk, NM, S Uribe-Convers<sup>†</sup>, B Gehrke, **DC Tank**, and FR Blattner. 2015. Oligocene niche shift, Miocene diversification–cold tolerance and accelerated speciation rates in the St. John's Worts (*Hypericum*, Hypericaceae). *BMC Evolutionary Biology* 15: 80. doi: 10.1186/s12862-015-0359-4.
24. Zanne, AE, **DC Tank**, WK Cornwell, JM Eastman, SA Smith, RG FitzJohn, DJ McGlinn, BC O'Meara, AT Moles, DL Royer, IJ Wright, L Aarssen, RI Bertin, A Calaminus, R Govaerts, F Hemmings, MR Leishman, J Oleksyn, PB Reich, DE Soltis, PS Soltis, PF Stevens, NG Swenson, L Warman, M Westoby, and JM Beaulieu. 2014. Corrigendum: Three keys to the radiation of angiosperms into freezing environments. *Nature* 514: 394. doi:10.1038/nature13842.
23. FitzJohn, RG, MW Pennell, AE Zanne, P. Stevens, **DC Tank**, and WK Cornwell. 2014. How much of the world is woody? *Journal of Ecology* 102: 1266-1272.
22. Cornwell, WK, M Westoby, DS Falster, RG FitzJohn, BC O'Meara, DJ McGlinn, JM Eastman, AT Moles, PB Reich, **DC Tank**, I Wright, L Aarssen, JM Beaulieu, RM Kooyman, MR Leishman, Ü Niinemets, J Oleksyn, A Ordonez, MW Pennell, DL Royer, SA Smith, PF Stevens, NG Swenson, L Warman, P Wilf, H Maherali, ET Miller, EA Wheeler, and AE Zanne. 2014. Functional distinctiveness of major plant lineages. *Journal of Ecology* 102: 345-356. doi: 10.1111/1365-2745.12208.
21. Uribe-Convers, S<sup>†</sup>, J Duke<sup>†</sup>, MJ Moore, and **DC Tank**. 2014. A long PCR–based approach for DNA enrichment prior to next-generation sequencing for systematic studies. *Applications in Plant Sciences*: 2(1). doi: 10.3732/apps.1300063.
20. Zanne, AE, **DC Tank**, WK Cornwell, JM Eastman, SA Smith, RG FitzJohn, DJ McGlinn, BC O'Meara, AT Moles, DL Royer, IJ Wright, L Aarssen, RI Bertin, A Calaminus, R Govaerts, F Hemmings, MR Leishman, J Oleksyn, PB Reich, DE Soltis, PS Soltis, PF Stevens, NG Swenson, L Warman, M Westoby, and JM Beaulieu. 2014. Three keys to the radiation of angiosperms into freezing environments. *Nature* 506: 89-92. doi:10.1038/nature12872.
19. Carstens, BC, RS Brennan, V Chua, CV Duffie, MG Harvey, RA Koch, CD McMahan, BJ Nelson, CE Newman, JD Satler, G Seeholzer, K Posbic, **DC Tank**, and J Sullivan. 2013. Model selection as a tool for phylogeographic inference: An example from the willow *Salix melanopsis*. *Molecular Ecology* 22: 4014-4028. doi: 10.1111/mec.12347.

18. Fant, JB, H Weinberg-Wolf, **DC Tank**, KA Skogen. 2013. Microsatellite primers in *Castilleja sessiliflora* (Orobanchaceae), a perennial forb of the shortgrass prairie. *Applications in Plant Sciences* 1(6). doi: 10.3732/apps.1200564.
17. Beauileu, JM, **DC Tank**, and MJ Donoghue. 2013. A Southern Hemisphere origin for campanulid angiosperms and traces of the break-up of Gondwana. *BMC Evolutionary Biology* 13: 80. doi:10.1186/1471-2148-13-80.
16. Eastman, JM, LJ Harmon, and **DC Tank**. 2013. Congruification: support for time scaling large phylogenetic trees. *Methods in Ecology and Evolution* 4: 688-691. doi: 10.1111/2041-210X.12051
15. Raghavendra, AKH, G Newcombe, A Shipunov, M Baynes, and **DC Tank**. 2013. Exclusionary interactions among diverse fungi infecting developing seeds of *Centaurea stoebe*. *FEMS Microbiology Ecology* 84: 143-153. doi: 10.1111/1574-6941.12045.
14. Clay, D, SJ Novak, MD Serpe, **DC Tank**, and JF Smith. 2012. Homoploid hybrid speciation in a rare endemic *Castilleja* from Idaho (*Castilleja christii*, Orobanchaceae). *American Journal of Botany* 99:1976-1990. doi: 10.3732/ajb.1200326.
13. Egger, JM, JA Ruygt, and **DC Tank**. 2012. *Castilleja ambigua* var. *meadii* (Orobanchaceae): A new variety from Napa County, California. *Phytoneuron* 2012-68: 1–12.
12. Goldberg, CS, **DC Tank**, S Uribe-Convers<sup>†</sup>, WR Bosworth, HE Marx<sup>†</sup>, and LP Waits. 2012. Species designation of the Bruneau tiger beetle (*Cicindela waynei*) is supported by phylogenetic analysis of mitochondrial DNA sequence data. *Conservation Genetics* 13: 372-380.
11. Soltis, DE, SA Smith, N Cellinese, KJ Wurdack, **DC Tank**, SF Brockington, NF Refulio-Rodriguez, JB Walker, MJ Moore, BS Carlsward, CD Bell, M Latvis, S Crawley, C Black, D Diouf, Z Xi, MA Gitzendanner, KJ Sytsma, Y-L Qiu, KW Hilu, CC Davis, MJ Sanderson, RG Olmstead, WS Judd, MJ Donoghue, PS Soltis. 2011. Angiosperm phylogeny: 17 genes, 640 taxa. *American Journal of Botany* 98: 704-730.
10. Marx, HE<sup>†</sup>, N O'Leary, Y-W Yuan, P Lu-Irving, **DC Tank**, ME Mulgura and RG Olmstead. 2010. A molecular phylogeny and classification of Verbenaceae. *American Journal of Botany* 97:1647-1663.
9. **Tank, DC** and MJ Donoghue. 2010. Phylogeny and phylogenetic nomenclature of the Campanulidae based on an expanded sample of genes and taxa. *Systematic Botany* 35: 425-441.
8. Angiosperm Phylogeny Group (B Bremer, K Bremer, MW Chase, MF Fay, JL Reveal, DE Soltis, PS Soltis, and PF Stevens, who were equally responsible and listed here in alphabetical order only, with contributions from AA Anderberg, MJ Moore, RG Olmstead, PJ Rudall, KJ Sytsma, **DC Tank**, K Wurdack, Q-Y Xiang, and S Zmarzty, in alphabetical order). 2009. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG III. *Botanical Journal of the Linnean Society* 161: 105-121.
7. **Tank, DC** and RG Olmstead. 2009. The evolutionary origin of a second radiation of annual *Castilleja* species in South America: the role of long-distance dispersal and allopolyploidy. *American Journal of Botany* 96: 1907-1921.
6. **Tank, DC**, JM Egger, and RG Olmstead. 2009. Phylogenetic classification of subtribe Castillejinae (Orobanchaceae). *Systematic Botany* 34: 182-197.
5. Smith SA, **DC Tank**, L-A Boulanger, CA Bascom-Slack, K Eisenman, et al. 2008. Bioactive endophytes warrant intensified exploration and conservation. *PLOS ONE* 3(8): e3052.
4. **Tank, DC** and RG Olmstead. 2008. From annuals to perennials: phylogeny of subtribe Castillejinae (Orobanchaceae). *American Journal of Botany* 95: 608-625.
3. **Tank, DC**, PM Beardsley, SA Kelchner, and RG Olmstead. 2006. L.A.S. Johnson Review No. 7. Review of the systematics of Scrophulariaceae s.l. and its current disposition. *Australian Systematic Botany* 19: 289-307.
2. **Tank, DC** and T Sang. 2001. Phylogenetic utility of the glycerol-3-phosphate acyltransferase gene: evolution and implications in *Paeonia* (Paeoniaceae). *Molecular Phylogenetics and Evolution* 19: 421-429.
1. Wang, X-Q, **DC Tank** and T Sang. 2000. Phylogeny and divergence times in Pinaceae: evidence from three genomes. *Molecular Biology and Evolution* 17: 773-781.

#### TAXONOMIC TREATMENTS:

- Tank, DC**, AD Wolfe, S Mathews and RG Olmstead. *in press*. Orobanchaceae. In K de Queiroz, PD Cantino and J Gauthier (eds), *Phylonyms: A Companion to the Phylocode*. CRC Press, Boca Raton.
- Olmstead, RG and **DC Tank**. Lamiales. *in press*. In K de Queiroz, PD Cantino and J Gauthier (eds), *Phylonyms: A Companion to the Phylocode*. CRC Press, Boca Raton.
- Wetherwax, M and **DC Tank**. 2012. *Chloropyron*. In BG Baldwin et al. (eds), *The Jepson Manual: Vascular Plants of California*. University of California Press, Berkeley.

Wetherwax, M and **DC Tank**. 2012. *Cordylanthus*. In BG Baldwin et al. (eds), The Jepson Manual: Vascular Plants of California. University of California Press, Berkeley.

Wetherwax, M and **DC Tank**. 2012. *Dicranostegia*. In BG Baldwin et al. (eds), The Jepson Manual: Vascular Plants of California. University of California Press, Berkeley.

#### DATASETS:

Marx, HE<sup>†</sup>, M Richards<sup>†</sup>, GM Johnson<sup>†</sup>, and **DC Tank**. 2019. Data from: Increasing phylogenetic stochasticity at high elevations on summits across a remote North American wilderness. Dryad Digital Repository. doi: 10.5061/dryad.d06j48t.

Sullivan, J, ML Smith, A Espíndola, M Ruffley<sup>†</sup>, AM Rankin, **DC Tank**, and BC Carstens. 2019. Data from: Integrating life history traits into predictive phylogeography. Dryad Digital Repository doi: 10.5061/dryad.s6v210k.

Morales-Briones, DF<sup>†</sup> and **DC Tank**. 2019. Data from: Extensive allopolyploidy in the Neotropical genus *Lachemilla* (Rosaceae) revealed by PCR-based target enrichment of the nuclear ribosomal DNA cistron and plastid phylogenomics. Dryad Digital Repository. doi: 10.5061/dryad.g5q6g80.

Gilman, IS<sup>†</sup> and **DC Tank**. Data from: Species tree estimation using ddRADseq data from historical specimens confirms the monophyly of highly disjunct species of Chloropyron (Orobanchaceae). Dryad Digital Repository doi: 10.5061/dryad.6j58m7g.

Blischak, PD, M Latvis, DF Morales-Briones<sup>†</sup>, JC Johnson, VS Di Stilio, AD Wolfe, and **DC Tank**. Data from: Fluidigm2PURC: automated processing and haplotype inference for double-barcoded PCR amplicons. Dryad Digital Repository doi: 10.5061/dryad.89k5k30.

Jacobs, SJ<sup>†</sup>, C Kristofferson, S Uribe-Convers<sup>†</sup>, M Latvis, and **DC Tank**. 2018. Data from: Incongruence in molecular species delimitation schemes: what to do when adding more data is difficult. Dryad Digital Repository. doi: 10.5061/dryad.97d83g0.

Morales-Briones, DF<sup>†</sup>, K Romoleroux, F Kolář, and **DC Tank**. 2018. Data from: Phylogeny and evolution of the neotropical radiation of *Lachemilla* (Rosaceae): uncovering a history of reticulate evolution and implications for infrageneric classification. Dryad Digital Repository. doi: 10.5061/dryad.561rp.

Morales-Briones, DF<sup>†</sup>, A Liston, and **DC Tank**. 2018. Data from: Phylogenomic analyses reveal a deep history of hybridization and polyploidy in the Neotropical genus *Lachemilla* (Rosaceae). Dryad Digital Repository. doi: 10.5061/dryad.vj2s888.

Ruffley, M<sup>†</sup>, ML Smith, A Espíndola, BC Carstens, J Sullivan, and **DC Tank**. 2018. Data from: Combining allele frequency and tree-based approaches improves phylogeographic inference from natural history collections. Dryad Digital Repository. doi: 10.5061/dryad.288c2

Latvis, M, SJ Jacobs<sup>†</sup>, SME Mortimer<sup>†</sup>, M Richards<sup>†</sup>, PD Blischak, S Mathews, and **DC Tank**. 2017. Data from: Primers for *Castilleja* and their utility across Orobanchaceae: II. Single-copy nuclear loci. Dryad Digital Repository. doi: 10.5061/dryad.52v62.

Marx, HE<sup>†</sup>, C Dentant, J Renaud, R Delunel, **DC Tank**, and S Lavergne. 2017. Data from: Riders in the sky (islands): using a mega-phylogenetic approach to understand plant species distribution and coexistence at the altitudinal limits of angiosperm plant life. Dryad Digital Repository. doi: 10.5061/dryad.mc50c.

Smith, ML, M Ruffley<sup>†</sup>, A Espíndola, **DC Tank**, J Sullivan, and BC Carstens. Data from: Demographic model selection using random forests and the site frequency spectrum. Dryad Digital Repository. doi:10.5061/dryad.2j27b.

Marx, HE<sup>†</sup>, C Dentant, J Renaud, R Delunel, **DC Tank**, and S Lavergne. Data from: Riders in the sky (islands): using a mega-phylogenetic approach to understand plant species distribution and coexistence at the altitudinal limits of angiosperm plant life. Dryad Digital Repository. doi:10.5061/dryad.mc50c.

Espíndola, A, M Ruffley<sup>†</sup>, M Smith, B Carstens, **DC Tank**, and J Sullivan. 2016. Data from: Identifying cryptic diversity with predictive phylogeography. Dryad Digital Repository. doi:10.5061/dryad.ss7d6.

Uribe-Convers, S<sup>†</sup>, MLSettles, and **DC Tank**. Data from: A phylogenomic approach based on PCR target enrichment and high throughput sequencing: resolving the diversity within the South American species of *Bartsia* l. (Orobanchaceae). 2016. PLoS ONE <http://dx.doi.org/10.5061/dryad.fh592>

Marx, HE<sup>†</sup>, DE Giblin, PW Dunwiddie, and **DC Tank**. Data from: Deconstructing Darwin's naturalization conundrum in the San Juan Islands using community phylogenetics and functional traits. 2015. Dryad Digital Repository. doi: 10.5061/dryad.m88g7.

- Uribe-Convers, S<sup>†</sup> and **DC Tank**. Data from: Shifts in diversification rates linked to biogeographic movement into new areas: an example of a recent radiation in the Andes. 2015. Dryad Digital Repository. doi: 10.5061/dryad.7v1f8.
- Nürk, NM, S Uribe-Convers<sup>†</sup>, B Gehrke, **DC Tank**, and FR Blattner. 2015. Data from: Oligocene niche shift, Miocene diversification - cold tolerance and accelerated speciation rates in the St. John's Worts (*Hypericum*, Hypericaceae). Dryad Digital Repository. doi: 10.5061/dryad.4tm8j.
- FitzJohn, RG, MW Pennell, AE Zanne, PF Stevens, **DC Tank**, and WK Cornwell. Data from: How much of the world is woody? 2014. Dryad Digital Repository. doi:10.5061/dryad.v7m14.2.
- Tank, DC**, JM Eastman, JM Beaulieu, and SA Smith. 2014. Phylogenetic resources. Data from: Three keys to the radiation of angiosperms into freezing environments. Dryad Digital Repository. doi:10.5061/dryad.63q27.2/3.1.
- Tank, DC**, JM Eastman, JM Beaulieu, WK Cornwell, PF Stevens, and AE Zanne. 2014. Taxonomic lookup table containing clade-level mappings for 15,363 genera of Spermatophyta. Data from: Three keys to the radiation of angiosperms into freezing environments. Dryad Digital Repository. doi:10.5061/dryad.63q27.2/1.1.
- Uribe-Convers, S<sup>†</sup>, JR Duke, MJ Moore, and **DC Tank**. 2014. Data from: A long PCR based approach for DNA enrichment prior to next-generation sequencing for systematic studies. Dryad Digital Repository. doi:10.5061/dryad.kc75n.
- Carstens, BC, RS Brennan, V Chua, CV Duffie, MG Harvey, RA Koch, CD McMahan, BJ Nelson, CE Newman, JD Satler, G Seeholzer, K Posbic, **DC Tank**, and J Sullivan. 2013. Data from: Model selection as a tool for phylogeographic inference: An example from the willow *Salix melanopsis*. Dryad Digital Repository. doi: 10.5061/dryad.sm635.

#### PRE-PRINTS (NOT PEER REVIEWED):

- Marx, HE<sup>†</sup>, M Richards<sup>†</sup>, GM Johnson<sup>†</sup>, and **DC Tank**. Increasing phylogenetic stochasticity at high elevations on summits across a remote North American wilderness. bioRxiv: 454330. doi: 10.1101/454330.
- Martine, CT, IE Jordon-Thaden, AJ McDonnell, JT Cantley, DS Hayes, MD Roche, ES Frawley, IS Gilman<sup>†</sup>, and **DC Tank**. Phylogeny of the Australian *Solanum dioicum* group using seven nuclear genes: testing Symon's fruit and seed dispersal hypotheses. bioRxiv: 462945. doi: 10.1101/462945.
- Blischak, PD, M Latvis, DF Morales-Briones<sup>†</sup>, JC Johnson, VS Di Stilio, AD Wolfe, and **DC Tank**. 2018. Fluidigm2PURC: automated processing and haplotype inference for double-barcoded PCR amplicons. bioRxiv: 242677. doi.org/10.1101/242677.
- Uribe-Convers, S<sup>†</sup>, ML Settles, and **DC Tank**. 2015. A targeted subgenomic approach for phylogenomics based on microfluidic PCR and high throughput sequencing. bioRxiv: 021246. doi: 10.1101/021246.
- Uribe-Convers, S<sup>†</sup> and **DC Tank**. 2015. Shifts in diversification rates linked to biogeographic movement into new areas: An example of a recent radiation in the Andes. bioRxiv: 019554. doi: 10.1101/019554.

#### OTHER (NOT PEER REVIEWED):

- Latvis, M and **DC Tank**. 2015. The 8<sup>th</sup> Annual Idaho Botanical Foray. Idaho Native Plant Society, Sage Notes 37 (4): 8-9 <http://idahonativeplants.org/wp-content/uploads/2015/12/SageNotesDec2015.pdf>.
- Legler, B and **DC Tank**. 2012. Digitizing herbarium specimens at the University of Idaho Stillinger Herbarium and the Consortium of Pacific Northwest Herbaria. Idaho Native Plant Society, Sage Notes 34 (2): 10-12 <http://www.idahonativeplants.org/news/SageNotesMay2012.pdf>.
- Tank, DC**. 2002. Subtribe Castillejinae revisited (tribe Rhinanthae: Orobanchaceae): a molecular phylogenetic analysis. Botanical Electronic News 300: <http://www.ou.edu/cas/botany-micro/ben/ben300.html>.

#### AWARDS & HONORS

<b>Dyess Faculty Fellowship</b> College of Science, University of Idaho, Moscow, ID	<b>2018-2019</b>
<b>Presidential Mid-Career Excellence Award</b> University of Idaho, Moscow, ID	<b>2017-2018</b>
<b>Best Seminar Speaker</b> Rancho Santa Ana Botanic Garden Seminar Series (Spring), Claremont, CA	<b>2015</b>
<b>Teacher of the Year</b> College of Natural Resources, University of Idaho, Moscow, ID	<b>2012</b>
<b>Hoffman Award in Teaching Excellence, Nominee</b> University of Idaho, Moscow, ID	<b>2012</b>
<b>Excellence in Teaching Award, Nominee</b> University of Washington, Seattle, WA	<b>2005 &amp; 2006</b>

<b>Melinda Denton Plant Systematics Dissertation Fellowship</b> Department of Biology, University of Washington, Seattle, WA.	<b>2005</b>
<b>Ingrith Deyrup-Olsen Distinguished Teaching Award</b> Department of Biology, University of Washington, Seattle, WA.	<b>2004</b>
<b>Outstanding Biology Teaching Assistant Award</b> Department of Biology, University of Washington, Seattle, WA.	<b>2004</b>
<b>Delzie Demaree Travel Award</b> 50th Annual Systematics Symposium, Missouri Botanical Garden, St. Louis, MO	<b>2003</b>
<b>Molecular Phylogenetics and Systematics Graduate Fellowship</b> Department of Botany, University of Washington, Seattle, WA.	<b>2000-2002</b>
<b>Valedictorian</b> College of Natural Science, Michigan State University, East Lansing, MI.	<b>1998</b>
<b>Bessey Memorial Award for Outstanding Undergraduate Student</b> Department of Botany & Plant Pathology, Michigan State University, East Lansing, MI.	<b>1998</b>
<b>Angell Foundation Biology Scholar</b> Department of Math & Science, Northwestern Michigan College, Traverse City, MI.	<b>1993</b>

#### GRANTS (\*INDICATES STUDENT CO-PI)

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<b>University of Idaho, Stillinger Trust, Herbarium Collecting Expeditions, \$4,240</b> "Stillinger Herbarium Expedition: The 12th annual Idaho Botanical Foray"	<b>2019-2020</b>
<b>US Geological Survey, \$22,241 (co-PI)</b> "Diet, population connectivity and adaptive differences among populations of northern Idaho ground squirrels" PI Courtney Conway (University of Idaho), co-PIs Lisette Waits (University of Idaho), Kimberly Andrews (University of Idaho).	<b>2016-2018</b>
<b>NSF DEB, Phylogenetic Systematics, Doctoral Dissertation Improvement Grant, \$18,738</b> "Dissertation Research: How many degrees of separation? Investigating the main contributors to plant speciation in a rapidly diverging lineage in western North America" co-PI Sarah Jacobs <sup>†</sup> .	<b>2015-2017</b>
<b>NSF DEB, Phylogenetic Systematics, Doctoral Dissertation Improvement Grant, \$18,743</b> "Dissertation Research: Adaptive radiation and hybridization: testing the hybrid swarm origin hypothesis for adaptive radiations in a phylogenetic framework" co-PI Diego Morales-Briones <sup>†</sup> .	<b>2015-2017</b>
<b>NSF DEB, Phylogenetic Systematics, Systematics &amp; Biodiversity Sciences, \$7,017</b> "REU Supplement: CAREER: Correlates of diversification and the investigation of the accumulation of evidence for speciation: phylogeny and systematics of a rapid and recent radiation"	<b>2015-2016</b>
<b>BEACON: An NSF Center for the Study of Evolution in Action, \$30,612 (\$71,906 total)</b> "Evolutionary and ecological consequences of polyploidy" co-PI Verónica Di Stilio (University of Washington).	<b>2015-2016</b>
<b>University of Idaho, Stillinger Trust, Herbarium Collecting Expeditions, \$5,008</b> "Stillinger Herbarium Expedition: The 8th annual Idaho Botanical Foray"	<b>2015-2016</b>
<b>NSF DEB, Biodiversity Discovery &amp; Analysis, Systematics &amp; Biodiversity Sciences, \$622,609 (\$906,796 total) (co-PI)</b> "Collaborative Research: A comparative phylogeographic approach to predicting cryptic diversity - the inland temperate rainforest as a model system" PIs Jack Sullivan (University of Idaho) and Bryan Carstens (Ohio State University).	<b>2015-2019</b>
<b>National Geographic Society, \$12,385 (co-PI)</b> "A comparative phylogeographic approach to predicting cryptic diversity: inland Northwest rainforests as a model ecosystem" PI Jack Sullivan (University of Idaho)	<b>2014-2016</b>
<b>NSF DEB, Phylogenetic Systematics, Systematics &amp; Biodiversity Sciences, \$800,000</b> "CAREER: Correlates of diversification and the investigation of the accumulation of evidence for speciation: phylogeny and systematics of a rapid and recent radiation"	<b>2013-2019</b>
<b>NSF DEB, Phylogenetic Systematics, Doctoral Dissertation Improvement Grant, \$14,980</b> "Dissertation Research: Investigating the accumulation of evidence for speciation: species delimitation in a rapid and recent radiation" co-PI Simon Uribe-Convers <sup>†</sup> .	<b>2012-2015</b>
<b>BEACON: An NSF Center for the Study of Evolution in Action, \$81,368 (\$154,875 total)</b> "The genetic basis of weediness: rapid evolution of flowering time in wild radish" co-PIs James Foster (University of Idaho), Jeffrey Conner (Michigan State University), Ian Dworkin (Michigan State University), Gregory Goins (North Carolina A&T).	<b>2012-2015</b>

<b>University of Idaho, Stillinger Trust, Herbarium Collecting Expeditions, \$3,785</b>	<b>2011-2012</b>
"Stillinger Herbarium Expedition: The first annual Stillinger Herbarium Foray and fourth annual Idaho Botanical Foray"	
<b>NSF DBI, Biological Research Collections, \$301,351 (\$1,340,000 total)</b>	<b>2010-2013</b>
"Collaborative Research: The Online Consortium of Pacific Northwest Herbaria Expanded to Include Taxonomically Diverse Specimens from Large and Small Regional Collections" co-PIs Richard Olmstead (University of Washington), Aaron Liston (Oregon State University), Matt Lavin (Montana State University).	
<b>University of Idaho, Research Office Seed Grant, \$11,996</b>	<b>2010-2011</b>
"Next generation sequencing of a chloroplast genomes in the paintbrushes ( <i>Castilleja</i> ): species-level phylogenomics in a taxonomically difficult group"	
<b>NSF OISE, International Research Experience for Students, \$144,883 (co-PI)</b>	<b>2010-2013</b>
"An Interdisciplinary Team-Based International Research Experience in Biodiversity Conservation and Sustainable Community Development in the Ecuadorian Andes" PI Lisette Waits, co-PIs Stephen Mulkety, Sandra Pinel, and Janet Rachlow.	
<b>University of Idaho, Environmental Sciences FIT Grant, \$20,000 (co-PI)</b>	<b>2009-2010</b>
"Establishing a long-term interdisciplinary research and education program focused on biodiversity conservation in the Ecuadorian Andes" PI Lisette Waits, co-PIs Sandra Pinel, and Janet Rachlow	
<b>NSF DEB, Doctoral Dissertation Improvement Grant, \$14,462</b>	<b>2004-2006</b>
<b>Sigma-Xi Grants in Aid of Research, \$500</b>	<b>2003</b>
University of Washington Chapter, Seattle, WA.	
<b>Giles Graduate Student Award for Field Research, \$600 &amp; \$1200</b>	<b>2001 &amp; 2003</b>
Department of Botany, University of Washington, Seattle, WA.	
<b>Society of Systematic Biologists Graduate Student Research Award, \$1,000</b>	<b>2001</b>
<b>American Society of Plant Taxonomists Graduate Student Research Award, \$700</b>	<b>2001</b>
<b>Botanical Society of America Karling Award for Graduate Student Research, \$500</b>	<b>2001</b>
<b>Sigma-Xi Grants in Aid of Research, \$700</b>	<b>1999</b>
<b>Undergraduate Research Support Grant, \$1,000</b>	<b>1997</b>
College of Natural Science, Michigan State University, East Lansing, MI.	

## TEACHING EXPERIENCE

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<b>University of Idaho</b>	<b>2008-present</b>
<i>Professional Development for Biologists</i> (2015-present; graduate course on scientific communication), <i>Structure and Function Across the Tree of Life</i> (2015-present; undergraduate lecture/lab), <i>Practicum in Biology Laboratory Teaching: Peer Teaching Assistants in Structure and Function</i> (2015-present; undergraduate teaching practicum), <i>Advanced Field Botany</i> (2013-present; 2-week intensive undergraduate/graduate summer field course at the University of Idaho McCall Field Campus), <i>Dendrology</i> (2009-2014; undergraduate lecture/lab), <i>Peer Teaching Assistants in Dendrology</i> (2010-2014; undergraduate teaching practicum), <i>Field Botany</i> (2011; undergraduate summer short course at the University of Idaho Taylor Wilderness Research Station), <i>Conservation Genetics</i> (2010, 2012; graduate lecture/lab team taught with L. Waits), <i>Phylogenetics Reading Group</i> (2009-present; graduate seminar)	
<b>Lecturer, Yale University</b>	<b>2007</b>
<i>Diversity of Life</i> (undergraduate lecture; team taught with M. Wells)	
<b>Workshop Leader, Yale University</b>	<b>2007 &amp; 2008</b>
<i>Phylogenetics &amp; Bioinformatics</i> (undergraduate workshop; team taught with S. Smith)	
<b>Predoctoral Lecturer, University of Washington</b>	<b>2004 &amp; 2005</b>
<i>Plant Identification &amp; Classification</i> (undergraduate lecture/lab)	
<b>Teaching Assistant, University of Washington</b>	<b>2001-2006</b>
Departments of Botany, Zoology, & Biology ( <i>Plant Identification &amp; Classification</i> , <i>Anatomy &amp; Morphology of Land Plants</i> , <i>Molecular Evolution</i> , <i>Foundations in Evolution and Systematics</i> , <i>Introductory Biology</i> )	
<b>Teaching Assistant, Michigan State University</b>	<b>1998-2000</b>
Departments of Botany and Plant Pathology & Zoology ( <i>Plant Systematics</i> , <i>Evolution</i> , <i>Integrative Studies in Biology</i> )	
<b>Undergraduate Teaching Assistant, Michigan State University</b>	<b>1997</b>
Department of Botany and Plant Pathology ( <i>Environmental Plant Physiology</i> )	



## ACTIVITIES

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### INVITED PRESENTATIONS:

Chicago Plant Biology Symposium, Field Museum, Chicago, IL	April 2019
Department of Plant Biology, Michigan State University, East Lansing, MI	March 2019
Department of Biological Sciences, University of Arkansas, Fayetteville, AR	April 2018
Department of Ecology, Evolution, and Organismal Biology, Iowa State University, Ames, IA	March 2018
International Botanical Congress, Shenzhen, China	July 2017
Botany Washington, University of Washington Herbarium and Washington Native Plant Society, Leavenworth, WA	June 2017
Department of Integrative Biology, University of California Berkeley, Berkeley, CA	November 2016
Family Forest Landowners & Managers Conference & Exposition, Moscow, ID	March 2016
Department of Biology, Willamette University, Salem, OR	October 2015
Idaho Native Plant Society, White Pine Chapter, Moscow, ID	March 2015
Rancho Santa Ana Botanic Garden, Claremont, CA	February 2015
Program in Plant Biology and Conservation, Chicago Botanic Garden & Northwestern University, Evanston, IL	January 2015
Department of Ecology, Evolution, and Organismal Biology, Ohio State University, Columbus, OH	October 2014
60th Annual Systematics Symposium, Missouri Botanical Garden, St. Louis, MO	October 2013
Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI	October 2013
Inland Northwest Genomics Symposium, IBEST, University of Idaho, Moscow, ID	May 2013
Department of Botany, Smithsonian Institute, Washington, DC	February 2013
Department of Biology, University of Florida, Gainesville, FL	February 2013
Department of Biological Sciences, University of Idaho, Moscow, ID	October 2012
Department of Ecology and Evolutionary Biology & University of Colorado Museum of Natural History, University of Colorado, Boulder, CO	March 2012
Department of Biological Sciences, Washington State University, Pullman, WA	March 2012
The Field Museum, A. Watson Armour Research Seminar, Chicago, IL	March 2011
Palouse Ecology, Evolution, and Systematics, Moscow, ID	April 2010
Idaho Native Plant Society, White Pine Chapter, Moscow, ID	March 2010
Universidad Tecnica Particular de Loja, Loja, Ecuador	January 2010
Biodiversity Research Center, Ilia Chavchavadze State University, Tbilisi, Georgia	October 2009
Department of Botany, University of Wyoming, Laramie, WY	September 2009
Department of Biological Sciences, Boise State University, Boise, ID	October 2008
Yale Institute for Biospheric Studies, Yale University, New Haven, CT	April 2008
College of Natural Resources, University of Idaho, Moscow, ID	November 2007
Department of Biology, Linfield College, McMinnville, OR	November 2007
Harvard University Herbaria, Harvard University, Cambridge, MA	October 2006
Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT	September 2006

### PRESENTATIONS AT PROFESSIONAL MEETINGS (†INDICATES STUDENT COAUTHOR; \*INDICATES PRESENTER WHEN NOT FIRST AUTHOR):

Jacobs, SJ<sup>†</sup>, M Latvis, and **DC Tank**. Systematics in the speciation grey zone: disentangling relationships in a recent plant radiation in light of hybridization and introgression. Evolution meeting, Montpellier, France, 2018.

Ruffley, M<sup>†</sup>, **DC Tank**, and LJ Harmon. Trait-mediated community assembly models identified through machine learning and Approximate Bayesian Computation. Evolution meeting, Montpellier, France, 2018.

- Jacobs, SJ<sup>†</sup>, S Herzog<sup>†</sup>, and **DC Tank**. Species delimitation in the *Castilleja pilosa* species complex (Orobanchaceae) using multiple lines of evidence. Botany meeting, Rochester, MN, 2018.
- Mortimer, SME<sup>†</sup> and **DC Tank**. Phylogeny and evolution of *Lamourouxia* (Orobanchaceae): patterns of diversification in a neotropical radiation. Botany meeting, Rochester, MN, 2018.
- McCauley, S<sup>†</sup>, DF Morales-Briones<sup>†</sup>, V Di Stilio, and **DC Tank**. Investigating the role of climate and geography in the evolution of pollination syndrome in *Thalictrum* (Ranunculaceae). Botany meeting, Rochester, MN, 2018.
- Morales-Briones, DF<sup>†</sup> and **DC Tank**. Disentangling the Reticulate Evolutionary History of the Neotropical Plant Radiation of *Lachemilla* (Rosaceae). Botany meeting, Rochester, MN, 2018.
- Di Stilio, VS, SR Hartogs, J Martinez-Gomez, and **DC Tank**. Characterizing wind pollination syndrome, its tempo and mode of evolution in *Thalictrum* (Ranunculaceae). Botany meeting, Rochester, MN, 2018.
- Latvis, M, P Blischak, and **DC Tank**. Phylogenetics in the speciation "grey zone": disentangling relationships among the paintbrushes (*Castilleja*; Orobanchaceae) in the midst of rampant hybridization and introgression. Evolution meeting, Portland, Oregon, 2017 (poster).
- Gilman, IS<sup>†</sup> and **DC Tank**. Sensitivity of quartet-based species tree methods to missing data. Evolution meeting, Portland, Oregon, 2017.
- Smith, M, A Espíndola, M Ruffley<sup>†</sup>, **DC Tank**, JM Sullivan, and B Carstens. Species limits and relationships within tail-dropper slugs (genus *Prophysaon*) from the Pacific Northwest. Evolution meeting, Portland, Oregon, 2017.
- Espíndola, A, T Pelletier, B Carstens, JM Sullivan, and **DC Tank**. Predictive methods for conservation prioritization. Evolution meeting, Portland, Oregon, 2017.
- Jacobs, SJ<sup>†</sup>, and **DC Tank**. Species delimitation in a recent and rapid radiation. Evolution meeting, Portland, Oregon, 2017.
- Marx, H<sup>†</sup>, P Weigelt, S Lavergne, and **DC Tank**. Phylogenetic patterns of alien invasion across island archipelagos. International Biogeography Society meeting, Tuscon, Arizona, 2017.
- Martine, C, J Cantley, I Jordon-Thaden, D Hayes, M Roche, and **DC Tank**. What a next-generation phylogeny tells us about Australia's bush tomatoes (*Solanum*). Botany meeting, Savannah, Georgia, 2016.
- Tank, DC**. The evolutionary origin of *Castilleja* (Orobanchaceae) in South America. Botany meeting, Savannah, Georgia, 2016.
- Uribe-Convers, S<sup>†</sup>, and **DC Tank**. The evolutionary history of *Neobartsia* (Orobanchaceae)—biogeography, dispersification, genomics, and coalescence. Botany meeting, Savannah, Georgia, 2016.
- Latvis, M, P Blischak, M Strunk<sup>†</sup>, SJ Jacobs<sup>†</sup>, and **DC Tank**<sup>†</sup>. Phylogenetics in the speciation "grey zone": further disentangling relationships among the paintbrushes (*Castilleja*, Orobanchaceae). Botany meeting, Savannah, Georgia, 2016.
- Jacobs, SJ<sup>†</sup>, M Latvis, and **DC Tank**. How many degrees of separation? Morphological variation in the regional forms of *Castilleja miniata* (Orobanchaceae) and its potential use in species delimitation. Botany meeting, Savannah, Georgia, 2016.
- Herzog, H<sup>†</sup>, SJ Jacobs<sup>†</sup>, and **DC Tank**. Evaluating the taxonomic status of *Castilleja pilosa* var. *longispica* using morphological data. Botany meeting, Savannah, Georgia, 2016.
- Marx, HE<sup>†</sup>, and **DC Tank**. Diversity dynamics of alpine flora using mega-phylogenetic approaches. Botany meeting, Savannah, Georgia, 2016.
- Tank, DC**, and RG Olmstead. Divergence time estimation in Lamiidae. Botany meeting, Savannah, Georgia, 2016.
- Ruffley, M<sup>†</sup>, A Espindola, **DC Tank**, and JM Sullivan. Comparative phylogeography of disjunct plants in the Pacific Northwest temperate rainforest. Botany meeting, Savannah, Georgia, 2016.
- Gilman, I<sup>†</sup>, and **DC Tank**. Comparative phylogenetics of niche condition in *Cordylanthus* and *Pseudocordylanthus* (Orobanchaceae). Botany meeting, Savannah, Georgia, 2016.
- Ruffley, M<sup>†</sup>, A Espíndola, M Smith, B Carstens, **DC Tank**, and JM Sullivan. Phylogeography of *Alnus rubra* in the Pacific Northwest temperate rainforest. Evolution meeting, Austin, Texas, 2016.
- Smith, M, A Espíndola, M Ruffley<sup>†</sup>, **DC Tank**, JM Sullivan, and B Carstens. Testing models of colonization in the robust lancetooth snail (*Haplotrema vancouverense*) from the Pacific Northwest using Approximate Bayesian Computation and the Site Frequency Spectrum. Evolution meeting, Austin, Texas, 2016.

- Espíndola, A, M Ruffley<sup>†</sup>, M Smith, **DC Tank**, B Carstens, and JM Sullivan. Predicting cryptic diversity from phylogeographic, climatic and taxonomic data. Evolution meeting, Austin, Texas, 2016.
- Morales-Briones, D<sup>†</sup>, and **DC Tank**. Reticulate evolution, divergence times and infrageneric classification insights of the Neotropical genus *Lachemilla* (Rosaceae). Evolution meeting, Austin, Texas, 2016.
- Martine, C, I Jordan-Thaden, M Roche, D Hayes, and **DC Tank**. Transcriptome-mined introns offer new understandings of phylogenetic relationships among Australian bush tomatoes (*Solanum*) within the context of the Old World spiny solanums. Botany meeting, Edmonton, Alberta, Canada, 2015.
- Soltis, DE\*, PS Soltis\*, MW Pennell, LJ Harmon, and **DC Tank**. Polyploidy, shifts in diversification and associated changes in characters in angiosperm evolution. Botany meeting, Edmonton, Alberta, Canada, 2015.
- Morales-Briones, D<sup>†</sup>, and **DC Tank**. Divergence time estimates and historical biogeography of the neotropical genus *Lachemilla* (Rosaceae). Botany meeting, Edmonton, Alberta, Canada, 2015.
- Jacobs, SJ<sup>†</sup>, S Torpey<sup>†</sup>, M Latvis, and **DC Tank**. Integrated species delimitation in the *Castilleja cusickii* (Orobanchaceae) species complex. Botany meeting, Edmonton, Alberta, Canada, 2015.
- Latvis, M, SJ Jacobs<sup>†</sup>, J McCullough<sup>†</sup>, S Torpey<sup>†</sup>, and **DC Tank**. Phylogenomic data and dense taxon sampling reveal repeated episodes of hybridization throughout the complex evolutionary history of *Castilleja* (Orobanchaceae). Botany meeting, Edmonton, Alberta, Canada, 2015.
- Tank, DC**, L Widener, M Latvis, SJ Jacobs<sup>†</sup>, K Skogen, and J Fant. Phylogeny and evolution of a historically challenging species group: mixed data types identify cryptic species and a history of gene flow in the *Castilleja latifolia* (Orobanchaceae) species alliance. Botany meeting, Edmonton, Alberta, Canada, 2015.
- Marx, HE<sup>†</sup>, C Dentant, S Lavergne, and **DC Tank**. Patterns of community assembly on "sky islands" in the French Alps using mega-phylogenetic approaches. Botany meeting, Edmonton, Alberta, Canada, 2015.
- Jordan-Thaden, I, I Gilman<sup>†\*</sup>, S Uribe-Convers<sup>†</sup>, S Chamala, **DC Tank**, and C Martine. Selection and validation of transcriptome-mined intronic primers for Fluidigm PCR and Illumina sequencing. Botany meeting, Edmonton, Alberta, Canada, 2015 (poster).
- Butler, A<sup>†</sup>, M Latvis, SJ Jacobs<sup>†</sup>, and **DC Tank**. Species delimitation in the *Castilleja pilosa* species complex. Botany meeting, Edmonton, Alberta, Canada, 2015 (poster).
- Marx, HE<sup>†</sup>, P Weigelt, S Lavergne, and **DC Tank**. Dissecting drivers of invaded communities in a comparative phylogenetic framework. British Ecological Society and Société Française d'Ecologie, Lille, France, 2014.
- Marx, HE<sup>†</sup>, P Weigelt, S Lavergne, and **DC Tank**. Dissecting drivers of invaded communities in a comparative phylogenetic framework. Modern Comparative Phylogenetic Methods, Seville, Spain, 2014.
- Jordan-Thaden, I, S Uribe-Convers<sup>†</sup>, GT Godden, S Chamala, **DC Tank**, and CT Martine. A research workflow for development of single-copy nuclear loci and high-throughput targeted enrichment for two or more phylogenetic studies. Botany meeting, Boise, Idaho, 2014.
- Uribe-Convers, S<sup>†</sup>, ML Settles, and **DC Tank**. A targeted subgenomic approach for phylogenomics based on microfluidic PCR and high throughput sequencing. Botany meeting, Boise, Idaho, 2014.
- Morales-Briones, D<sup>†</sup>, and **DC Tank**. The role of polyploidy and hybridization in the diversification of *Lachemilla* (Rosaceae). Botany meeting, Boise, Idaho, 2014.
- Uribe-Convers, S<sup>†</sup> and **DC Tank**. Species-level systematics of *Bartsia* (Orobanchaceae): a multilocus approach with complete sampling and hundreds of individuals for a rapid and recent Andean radiation. Botany meeting, Boise, Idaho, 2014.
- Marx, HE<sup>†</sup>, S Lavergne, W Thuiller, and **DC Tank**. Dissecting drivers of community assembly in a comparative phylogenetic framework. Botany meeting, Boise, Idaho, 2014.
- Tank, DC**. Polyploidy and diversification rates: blind alleys, dead ends, and delayed drivers. Botany meeting, Boise, Idaho, 2014.
- Tank, DC**, JM Eastman, MW Pennell, CE Hinchliff, PS Soltis, DE Soltis, and LJ Harmon\*. Progressive radiations and the pulse of angiosperm diversification. Radiations conference, Institute of Systematic Botany, University of Zürich, Zürich, Switzerland, 2014.
- Zanne, AE, JM Beaulieu, WK Cornwell, and **DC Tank**. Evolution and biogeography of leaf and stem traits: consequences for carbon cycling. INTECOL, ExCel, London, UK, 2013.
- Jacobs, SJ<sup>†</sup>, C Kristofferson<sup>†</sup>, S Uribe-Convers<sup>†</sup>, and **DC Tank**. Evaluating the taxonomic status of two narrowly endemic owl's clovers (*Castilleja*: Orobanchaceae). Botany meeting, New Orleans, Louisiana, 2013.

- Marx, HE<sup>†</sup> and **DC Tank**. Alien encounters of the floral kind: interpreting patterns of community assembly on the San Juan Islands. Botany meeting, New Orleans, Louisiana, 2013.
- Morales-Briones, DF<sup>†</sup>, A Liston, and **DC Tank**. Phylogenomics of *Lachemilla* (Rosaceae): Coalescent-based species trees using sequence capture data. Botany meeting, New Orleans, Louisiana, 2013.
- Uribe-Convers, S<sup>†</sup> and **DC Tank**. Got Genome? A long PCR based method for chloroplast genome enrichment and phylogenomics in angiosperms. Botany meeting, New Orleans, Louisiana, 2013.
- Uribe-Convers, S<sup>†</sup> and **DC Tank**. Chloroplast phylogenomics in *Bartsia* (Orobanchaceae): a subgenomic approach using microfluidic PCR. Botany meeting, New Orleans, Louisiana, 2013.
- Jacobs, SJ<sup>†</sup>, C Kristofferson<sup>†</sup>, S Uribe-Convers<sup>†</sup>, and **DC Tank**. Coalescent-based species delimitation in a recently diverged lineage: a case study using multiple methods. Evolution meeting, Snowbird, Utah, 2013.
- Marx, HE<sup>†</sup> and **DC Tank**. Alien encounters of the floral kind: interpreting patterns of community assembly on the San Juan Islands. Evolution meeting, Snowbird, Utah, 2013.
- Tank, DC**, JM Eastman, MW Pennell, and LJ Harmon. Progressive radiations and the pulse of angiosperm diversification. Botany meeting, Columbus, Ohio, 2012.
- Morales-Briones, D<sup>†</sup>, K Romoleroux, and **DC Tank**. Phylogenetic relationships of *Lachemilla* and its relatives in subtribe Alchemillinae (Rosaceae): intergeneric relationships, polyploidy, and hybridization. Botany meeting, Columbus, Ohio, 2012.
- Marx, HE<sup>†</sup>, D Giblin, P Dunwiddie, and **DC Tank**. Community phylogenetics of the vascular flora of the San Juan Islands archipelago in Puget Sound. Botany meeting, Columbus, Ohio, 2012.
- Tank, DC**, and JM Eastman. Diversification rates, life history shifts, and chromosomal evolution in *Castilleja* and relatives (Castillejinae, Orobanchaceae). Botany meeting, St. Louis, Missouri, 2011.
- Kisha, TJ, B Hellier, **DC Tank**, and J Hu. Comparison of *matK* sequences and TRAP molecular markers for the taxonomic characterization of six species of the *Allium* section *Cepa* (Mill.) Prokh. complex. American Society for Horticultural Science meeting, Waikoloa, Hawaii, 2011. abstract published in supplement to HortScience 46: S205.
- Tank, DC**, J Duke<sup>†</sup>, and S Uribe-Convers<sup>†</sup>. Phylogeny and diversification of the species-rich perennial *Castilleja* (Orobanchaceae) clade: parallel radiations in western North America and montane Latin America. Botany meeting, Providence, Rhode Island, 2010.
- Uribe-Convers, S<sup>†</sup> and **DC Tank**. Phylogenetic analysis of the genus *Bartsia* L. (Orobanchaceae): a mostly South American genus wrapped in a European clade. Botany meeting, Providence, Rhode Island, 2010.
- Clay, D<sup>†</sup>, **DC Tank**, JM Egger, and JF Smith. Exploring interspecific hybridization in a rare endemic species of paintbrush (*Castilleja christii*, Orobanchaceae) using molecular and morphological techniques. Botany meeting, Providence, Rhode Island, 2010.
- Olmstead, RG, Y-W Yuan, HE Marx<sup>†</sup>, and **DC Tank**. The PPR gene family, one stop shopping for multiple, independent, nuclear gene loci for plant phylogenetics with examples from Lamiales. Botany meeting, Providence, Rhode Island, 2010.
- Soltis, DE, SA Smith, N Cellinese, M Moore, NF Refulio-Rodriguez, RG Olmstead, S Crawley, C Black, D Diouf, KW Hilu, Y-L Qiu, KJ Sytsma, K Wurdack, Z Xi, CC Davis, **DC Tank**, M Sanderson, MJ Donoghue, and PS Soltis. Inferring angiosperm phylogeny: 17-gene 642-taxon analyses. Botany meeting, Providence, Rhode Island, 2010.
- Tank, DC**. Using large trees to synthesize and direct phylogenetic research in Orobanchaceae. Botany meeting, Snowbird, Utah, 2009.
- Tank, DC** and MJ Donoghue. Phylogeny and phylogenetic nomenclature of the Campanulidae based on an expanded sample of genes and taxa. Botany meeting, Snowbird, Utah, 2009.
- Tank, DC**. Using large trees to synthesize and direct phylogenetic research in Orobanchaceae. Evolution meeting, Moscow, Idaho, 2009.
- Olmstead, RG and **DC Tank**. Over-precision in molecular dating. Botany meeting, Vancouver, British Columbia, 2008.
- Olmstead, RG and **DC Tank**. Over-precision in molecular dating. Evolution meeting, Minneapolis, Minnesota, 2008.
- Tank, DC**, RC Winkworth, J Lundberg, and MJ Donoghue. An update on Campanulid phylogeny. Botany meeting, Chicago, Illinois, 2007.
- Tank, DC** and RG Olmstead. Evolutionary history of perennial *Castilleja* (Castillejinae, Orobanchaceae): evidence from the nuclear gene *waxy*. Botany meeting, Chicago, Illinois, 2007.

- Angiosperm Tree of Life Group, DE Soltis. Progress in Assembling the Angiosperm Tree of Life. Botany meeting, Chicago, Illinois, 2007.
- Olmstead, RG, PM Beardsley, and **DC Tank**. Evolution of ploidy, perenniality, and pollination in monkey flowers and paintbrushes. Evolution meeting, Christchurch, New Zealand, 2007.
- Tank, DC** and RG Olmstead. Geographic disjunction or morphological convergence? The evolutionary origin of a second radiation of annual *Castilleja* species in South America (subtribe Castillejinae: Orobanchaceae). Botany meeting, Austin, Texas, 2005.
- Tank, DC** and RG Olmstead. Systematics of subtribe Castillejinae (Orobanchaceae): the role of morphology in taxon delimitation. Evolution meeting, Fort Collins, Colorado, 2004.
- Tank, DC** and RG Olmstead. Phylogenetic analysis of subtribe Castillejinae (tribe Rhinanthae: Orobanchaceae). Botany meeting, Madison, Wisconsin, 2002.
- Tank, DC**, X-Q Wang, and T Sang. Recent transfers of cinnamyl alcohol dehydrogenase between conifers diverged 200 million years ago. Botany meeting, Albuquerque, New Mexico, 2001.
- Tank, DC** and T Sang. The glycerol-3-phosphate acyltransferase gene in *Paeonia* (Paeoniaceae): molecular evolution and phylogenetic utility. Botany meeting, Portland, Oregon, 2000.
- Wang, X-Q, **DC Tank**, and T Sang. Phylogeny and divergence times in Pinaceae: evidence from three genomes. Botany meeting, Portland, Oregon, 2000.
- Tank, DC** and T Sang. Evolution of the GPAT gene in *Paeonia* (Paeoniaceae). XVI International Botanical Congress, St. Louis, Missouri, 1999 (poster).

#### EDUCATIONAL OUTREACH:

- |   |                       |
|---|-----------------------|
| <b>12th Annual Idaho Botanical Foray; Panhandle National Forests</b>  | <b>June 2019</b>      |
| 5-day collecting trip for volunteers from the University of Idaho, Boise State University, and College of Idaho.  |                       |
| <b>Field trip leader, Coolwater Ridge; Idaho Native Plant Society Annual meeting</b>  | <b>June 2016</b>      |
| Daylong fieldtrip for >35 participants in the Idaho Native Plant Society Annual Meeting.  |                       |
| <b>Botany team lead, Kaniksu Land Trust Bioblitz</b>  | <b>May 2016</b>       |
| Organized collection and identification activities for 12+ volunteers as part of 24 hour identification blitz on public lands in Sandpoint, Idaho.  |                       |
| <b>8th Annual Idaho Botanical Foray; Nez Perce-Clearwater National Forest</b>   | <b>June 2015</b>      |
| 5-day collecting trip for volunteers from the University of Idaho, Boise State University, and Idaho State University.  |                       |
| <b>Plants Are Cool, Too! Episode 2: Fossilized Forests; Guest Host &amp; Location Producer</b>  | <b>September 2012</b> |
| <a href="http://www.youtube.com/watch?v=YfRXDbtkEi0">http://www.youtube.com/watch?v=YfRXDbtkEi0</a>   |                       |
| <b>4th Annual Idaho Botanical Foray; Payette National Forest</b>  | <b>June 2011</b>      |
| 5-day collecting trip for >40 volunteers from the University of Idaho, Boise State University, College of Idaho, Idaho State University, Washington State University, and the University of Washington. |                       |
| <b>UNIVERSITY SERVICE:</b>  |                       |
| <b>Graduate Council</b>   | <b>2018-present</b>   |
| University of Idaho   |                       |
| <b>Executive Board</b>  | <b>2018-present</b>   |
| College of Science, University of Idaho   |                       |
| <b>Faculty Council</b>  | <b>2018-present</b>   |
| College of Science, University of Idaho   |                       |
| <b>Curriculum Committee, Chair</b>  | <b>2018-present</b>   |
| Department of Biological Sciences, University of Idaho  |                       |
| <b>Governing Board, Chair</b>   | <b>2018-present</b>   |
| Bioinformatics and Computational Biology Graduate Program, University of Idaho  |                       |
| <b>Arthropod Systematist Search Committee</b>   | <b>2018</b>           |
| Department of Biological Sciences, University of Idaho  |                       |
| <b>Curriculum Committee</b>   | <b>2016-present</b>   |
| Department of Biological Sciences, University of Idaho  |                       |

<b>Governing Board, Chair</b> Bioinformatics and Computational Biology Graduate Program, University of Idaho	<b>Aug 2016-Jan 2017</b>
<b>Stillinger Trust Administrative Committee</b> Office of Research and Economic Development, University of Idaho	<b>2008-present</b>
<b>Seminar Committee</b> Department of Biological Sciences, University of Idaho	<b>2015-2017</b>
<b>Evolutionary Biologist Search Committee</b> Department of Biological Sciences, University of Idaho	<b>2013</b>
<b>Governing Board</b> Bioinformatics and Computational Biology Graduate Program, University of Idaho	<b>2012-2015</b>
<b>Graduate Student Representative to the Faculty</b> Department of Biology, University of Washington	<b>2005-2006</b>
<b>SERVICE TO THE SCIENTIFIC COMMUNITY:</b>	
<b>Committee on Committees</b> Botanical Society of America	<b>2019-present</b>
<b>Council Member-at-Large</b> American Society of Plant Taxonomists	<b>2018-present</b>
<b>Past-President</b> International Society for Phylogenetic Nomenclature	<b>2018-present</b>
<b>Awards Committee, Co-Chair</b> American Society of Plant Taxonomists	<b>2018-present</b>
<b>Associate Editor</b> Systematic Biology	<b>2017-present</b>
<b>Awards Committee</b> American Society of Plant Taxonomists	<b>2017-present</b>
<b>Finance Committee</b> Botanical Society of America	<b>2017-present</b>
<b>Editorial Board</b> Botanical Society of America, Plant Science Bulletin	<b>2009-present</b>
<b>Executive Board</b> Society of Herbarium Curators	<b>2016-present</b>
<b>Editorial Board</b> Organisms, Diversity, and Evolution	<b>2009-present</b>
<b>President</b> International Society for Phylogenetic Nomenclature	<b>2017-2018</b>
<b>President-Elect</b> International Society for Phylogenetic Nomenclature	<b>2016-2017</b>
<b>Technology Committee, Chair</b> Botanical Society of America	<b>2015-2016</b>
<b>Council</b> International Society for Phylogenetic Nomenclature	<b>2013-2016</b>
<b>Technology Committee</b> Botanical Society of America	<b>2013-2016</b>
<b>Awards Committee</b> American Society of Plant Taxonomists	<b>2014</b>
<b>Governing Board, Bioinformatics and Computational Biology graduate program</b> Institute for Bioinformatics and Evolutionary Studies, University of Idaho	<b>2012-2015</b>
<b>Committee on Phylogenetic Nomenclature, Chair</b> International Society for Phylogenetic Nomenclature	<b>2011-2012</b>
<b>Committee on Phylogenetic Nomenclature</b> International Society for Phylogenetic Nomenclature	<b>2009-2012</b>

**Nominations Committee****2007-2010**

International Society for Phylogenetic Nomenclature

**Symposium Co-Organizer (with CP Randle and JM Morawetz)****2009**The Greatest Opportunists of All- Celebrating 40 years of Job Kuijt's *Biology of Parasitic Flowering Plants*. Botany meeting, Snowbird, Utah, 2009.**Manuscript Reviews****2002-present**

Acta Horticulturae (2006); American Journal of Botany (2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018); Applications in Plant Sciences (2014, 2017); BMC Evolutionary Biology (2009, 2010, 2013, 2015); Botanical Journal of the Linnaean Society (2012, 2013); Evolution (2014, 2016); Flora of North America (2015, 2016); Folia Geobotanica (2009); International Journal of Plant Sciences (2011, 2012, 2013); Journal of Ecology (2014, 2015); Journal of Systematics and Evolution (2010, 2011, 2019); Methods in Ecology and Evolution (2018); Molecular Phylogenetics and Evolution (2002, 2004, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017); New Phytologist (2014, 2015, 2017, 2018); Phylonyms: A Companion to the Phylocode (2009, 2010, 2011); Phytotaxa (2012, 2013); Plant Physiology (2007); Plant Systematics and Evolution (2007); Proceedings of the National Academy of Sciences (2018); Systematic Biology (2017, 2018, 2019); Systematic Botany (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017); Taxon (2006, 2009)

**Grant Proposal Reviews**

Panel service: National Science Foundation, Biological Research Collections (2010); National Science Foundation, Graduate Research Fellowship Program (2015); National Science Foundation, Systematics and Biodiversity Sciences (2015); National Science Foundation, Collections in Support of Biological Research (2017).

Ad hoc reviews: National Geographic Society (2008); National Science Foundation, Systematics and Biodiversity Sciences (2008, 2009, 2013, 2019); National Science Foundation, Dimensions of Biodiversity (2016)

**Memberships in Professional Associations (current)**

Botanical Society of America, American Society of Plant Taxonomists, Society of Systematic Biologists, Society for the Study of Evolution, International Society for Phylogenetic Nomenclature, Society of Herbarium Curators, Idaho Native Plant Society

**Advising**

Graduate students: *completed* - Simon Uribe-Convers (PhD, 2009-2014), Hannah E Marx (PhD, 2011-2016), Diego Morales-Briones (PhD, 2012-2017), Ian Gilman (MSc, 2015-2017), Sarah Jacobs (PhD, 2012-2018) Grahm Johnson (MSc, 2016-2019), Sebastian Mortimer (MSc, 2016-2019); *in progress* - Megan Ruffley (PhD, 2015; co-advised with J Sullivan), Samuel McCauley (PhD, 2017), Daniel Turck (PhD, 2018), Ty Styhl (PhD co-advised with C Conway, 2018), Harpo Faust (MSc, 2018).

Postdoctoral scholars: *former* - Anahi Espíndola (2015-2018; co-advised with J Sullivan), Maribeth Latvis (2013-2017), Jonathan Eastman (2012-2013; co-advised with LJ Harmon)

Student committees: *completed* - Daniel Caetano (University of Idaho, PhD, 2017), Andre Sanfiorezno (University of Idaho, PhD, 2016), Megan Riley (University of Idaho, MSc, 2016), Brice Sarver (University of Idaho, PhD, 2014), Mare Nazaire (Washington State University, PhD, 2013), Rachel Hutchinson (University of Idaho, MSc, 2013), Danielle Clay (Boise State University, MSc, 2011); *in progress* - Tyler Gulliksen (University of Idaho, MSc), Evan Hilpman (Washington State University, PhD), Mason Linscott (University of Idaho, PhD), Katie Peterson (University of Idaho, PhD), Malia Santos (University of Idaho, PhD), Amy Thorson (University of Idaho, MSc); *did not complete* - Sara Ashiglar (University of Idaho, MSc), Joshua Miller (University of Idaho, MSc), Maria Paulina Viteri (University of Idaho, PhD).