Silas Tittes

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EDUCATION

University of Colorado at Boulder, Boulder, Colorado, USA

- PhD. (in progress) – Ecology and Evolutionary Biology — Aug 20014 – Present
  - Advisers: Prof. Nolan Kane, and Prof. Nancy Emery
- Bachelor of Arts – Ecology and Evolutionary Biology — May 2008 – Dec 2012
  - Honors Thesis: Flea genetic diversity in Gunnison's Prairie Dog colonies and its implications for flea transmitted diseases
  - Adviser: Prof. Andrew Martin

RESEARCH EXPERIENCE

University of Colorado at Boulder

- Professional Research Assistant, Ecology and Evolutionary Biology — Aug 2014 – Aug 2013
  - Supervisor: Prof. Nolan Kane
- Undergraduate Research Student, Ecology and Evolutionary Biology — May 2009 – Aug 2012
  - Supervisor: Prof. Andrew Martin

PUBLICATIONS

JOURNALS

[9] C Weiss-Lehman, S Tittes, NC Kane, R Hufbauer, BA Melbourne (2018) Riding the wave: genomic signatures of gene surfing and selection in experimental range expansions. *Philosophical Transactions of the Royal Society B* ***(in review)***

[7] S Tittes, JF Walker, L Torres-Martinez, NC Emery (2017) Grow where you thrive, or where only you can survive? An analysis of tolerance curve evolution in a clade with diverse habitat affinities. *American Naturalist* ***(in review)***

[8] CS Smith, S Tittes, JP Mendieta, E Collier-zans, H Rowe, LH Rieseberg, NC Kane (2018) Genetics of alternative splicing evolution during sunflower domestication. *Proceedings of the National Academy of Sciences*

[6] Q Gao, NC Kane, B Hulke, S Reinert, C Pogoda, S Tittes, J Prasifka (2017) Genetic architecture of capitate glandular trichome density in florets of domesticated sunflower (*Helianthus annuus L.*). *Frontiers in plant science*

[5] DJ Gray, H Baker, K Clancy, RC Clarke, K deCesare, J Fike, MJ Gibbs, F Grotenhermen, NC Kane, KG Keepers, DP Land, RC Lynch, JP Mendieta, M Merlin, K Muller-Vahl, CS Pauli, BJ Pearson, B Rhan, TC Ruthenberg, CJ Schwartz, S Tittes, D Vergara, KH White, RN Trigiano (2016) Current and future needs and applications for cannabis. *Critical Reviews in Plant Sciences*

[4] D Vergara, H Baker, K Clancy, KG Keepers, JP Mendieta, CS Pauli, S Tittes, KH White, NC Kane (2016) Genetic and genomic tools for Cannabis sativa. *Critical Reviews in Plant Sciences*

[3] RC Lynch, D Vergara, S Tittes, KH White, CJ Schwartz, MJ Gibbs, TC Ruthenburg, K deCesare, DP Land, NC Kane (2016) Genomic and chemical diversity in Cannabis. *Critical Reviews in Plant Sciences*

[2] SJ Franks, NC Kane, NB O'Hara, S Tittes, JS Rest (2016) Rapid genome-wide evolution in *Brassica rapa* populations following drought revealed by sequencing of ancestral and descendant gene pools. *Molecular Ecology*

[1] S Tittes, NC Kane (2014) The genomics of adaptation, divergence and speciation: a congealing theory. *Molecular Ecology*

CONFERENCES

[4] S Tittes, NC Emery (2018) A novel Bayesian inferene method to model tolerance curves. *The American Society of Naturalists*, Montrey, CA

[3] S Tittes C Weiss-Lehman, NC Kane, R Hufbauer, BA Melbourne (2017) Surfing in pools of beetles: using replicated landscape experiments to disentangle signatures of selection and drift. *Evolution*, Portland, OR

[2] NB O'Hara, SJ Franks, NC Kane, S Tittes, Amidi-Abraham G, JS Rest (2014) Genomic signatures of rapid evolution in drought response and disease susceptibility in an annual plant, *Brassica rapa*. *Society for Molecular Biology and Evolution*, Puerto Rico

[1] SJ Franks, NC Kane, NB O'Hara, S Tittes, JS Rest (2014) Genome-wide analysis reveals rapid genetic changes in natural *Brassica rapa* populations following drought. *Evolution*, Raleigh, North Carolina

SKILLS

R, R Markdown, R Shiny, Bash, Python, Stan, Blast, Pandoc, LaTeX, Beamer, GitHub, Googling Stackoverflow.

AWARDS & SCHOLARSHIPS

- Ling-Ju Harn Fellowship — 2014
  $18,000
- Undergraduate Research Opportunities Program — 2010
  $1,000
- Edith Scates Memorial Scholarship — 2008
  $1,000
- Lion's Club International Scholarship — 2008
  $500

TEACHING

- Apple Genomics — Fall 2018

[*CV compiled on 2018-08-21*]