Curriculum Vitae

Silas Benjamin Tittes
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University of Colorado
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Education

2012 B.A. Ecology and Evolutionary Biology, *magna cum laude,* University of Colorado, Boulder

- Title of Honors Thesis: “Flea Genetic Diversity in Gunnison’s Prairie Dog Colonies and its Implications for Flea Transmitted Diseases.”

Professional Experience

2014 – present

- PhD Student, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder. Dissertation Advisor, Dr. Nolan C. Kane.

2013 – 2014

- Lab Manager to Dr. Nolan C. Kane, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder.

2009 – 2013

- Undergraduate Research Assistant to Dr. Andrew P. Martin, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder.

Fellowships, Grants, and Awards

Ling-Ju Harn Fellowship ($18,000)
Undergraduate Research Opportunities Program ($1000)
Edith Scates Memorial Scholarship ($1000)
Lion's Club International Scholarship ($500)

Teaching Experience

Fall 2014 – Guest Lecture, Genomics (EBIO 5460/4460)

- The role of single nucleotide polymorphism data sets in contemporary studies of evolutionary genomics
- How to construct automated pipelines for snp and indel calling using reference guided bwa alignment and samtools.

Fall 2013 – Teaching Assistant, Genomics (EBIO 5460/4460)
Fall 2012 – Learning Assistant, Evolutionary Biology (EBIO 3080)
Spring 2012 – Learning Assistant, Evolutionary Biology (EBIO 3080)

Honors

Commencement Speaker Chinook West High School Class of 2012

Peer Reviewed Publications:

S Tittes & NC Kane. (2014). The genomics of adaptation, divergence and speciation: a congealing theory. *Molecular ecology*, *23*(16), 3938-3940.

In Preparation:

S Tittes, L Sackett, D Tripp, and AP Martin. Diversity and Distribution of Fleas and Pathogenic Flea-Gut Bacteria From Across the Range of Gunnison Prairie Dogs (Cynomys gunnisoni) In preparation for submission to International Journal for Parasitology

SJ Franks, NC Kane, NB O'Hara, **S Tittes**, JS Rest. Genome-wide Analysis Reveals Rapid Genetic Changes in Natural *Brassica rapa* Populations Following Drought. In preparation for submission to *Science.*

Conferences and Presenations:
Panelist at 5th Annual National Learning Assistant Workshop

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

SJ Franks,, NC Kane, NB O'Hara, **S Tittes** and JS Rest. 2014. Genome-wide analysis reveals rapid genetic changes in natural *Brassica rapa* populations following drought. Evolution, Raleigh, North Carolina, June 23.

Reviewer for:
Molecular Ecology