

ASPT Graduate Student Research Grant Final Report

2017 Recipients

Please complete (typed) this form by **August 1, 2018** and submit it as a doc attachment to: Shawn Krosnick, skrosnick@tntech.edu

Name: Jesse W. Adams

Department: Department of Botany

Institution: University of Hawai'i at Mānoa

City: Honolulu

State: HI

Postal/Zip Code: 96822

Country: United States of America

Title of Study: Systematics of Three Endemic and One Widespread Species of *Polyscias* (Araliaceae) from Kaua'i

Amount awarded: \$800.00

Report:

**In the space below, please type a report of no more than 200 words (3-4 sentences) that explains how you used the funds awarded to you. You should indicate the status of your research project (i.e. completed, ongoing, currently analyzing data etc.) and how the funds contributed to that status (what you were able to accomplish, e.g. specimen collecting, data generation, data analyses).

Funding provided by this grant was used to complete the sequencing portion of my study which looks at species delimitation between three endemic and one widespread species of *Polyscias* (Araliaceae) on the island of Kaua'i. Following a genotyping by sequencing method, ezRAD, a total of 12 samples representing five species were sequenced on a MiSeq V3 600 cycles. I am currently analyzing the 14 gigabytes of data generated from this technique to find Single Nucleotide Polymorphisms (SNP). This information will then be used to reconstruct a phylogeny. Additionally, I am interested in looking at population level differences within the endangered species *P. bisattenuata*. A preliminary analysis of samples from morphologically distinct populations of this taxon, which has less than 50 individuals left in the wild, is showing variation between them. This may indicate subspecies or variety level differences.

**Please also attach a digital photo that represents you and your research as funded by ASPT, named as follows: lastname_firstname.jpg.

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