

## FACULTY GRANTS COMMITTEE REPORT FORM

**Name:** Isaac Ligocki

**Department:** Biology

**Title of Grant:** The social lives of fish: causes and consequences of social network position in mosquitofish.

**Date of Award (e.g. Fall 1998):** Spring 2020

**Category of Award (e.g. Released-time):** Research

**Amount of Award:** \$699.83

**Amount Encumbered:** \$699.83

**REPORT (150 words) *An abstract of a presentation or a report of a manuscript can be substituted and attached where appropriate.***

Due to pandemic-related delays, this experiment was carried out in Autumn 2020. Four MU biology students worked under my guidance to carry out the experiment. In total, they collected over 100 hours of behavioral observations which capture the establishment of dominance relationships in groups of female mosquitofish, *Gambusia holbrooki*, as well as their response to a potential mate and a predator. These students are currently scoring behavioral videos and three of them will be presenting preliminary results at Made In Millersville in April 2021. As results are finalized, these students will be encouraged to present their findings at the annual meeting of the Society of Integrative and Comparative Biologists (SICB). Pending final results, I plan to submit our findings to a peer-reviewed journal for publication. Preliminary findings from this work are also the basis for a Faculty Professional Development Council (FPDC) grant I submitted in Dec. 2020.