

**Matthew T. Pileggi**  
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## Education

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**Master of Science.** University of Florida. Gainesville, FL 2020 (expected)

- Major: Entomology
- Current GPA: 3.54

**Bachelor of Science.** University of Florida. Gainesville, FL 2018

- Major: Biology
- Cumulative GPA: 3.0

**Associates in Arts.** Valencia College. Orlando, FL 2016

- Graduated GPA: 3.6

## Research Experience

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### Molecular Biology and Bioinformatics

**Graduate Assistant** 2017 - present

- Insect-Microbiome Interactions Lab – Dr. Adam C.N. Wong
- Microbiome discovery
- Using cutting-edge sequencing technology and bioinformatic tools to explore previously uncharacterized bacterial genomes

### Conservation Biology

**Undergraduate Research Assistant** 2016 - 2017

- Biodiversity Informatics Lab – Dr. Robert Guralnick
- Investigated species response to environmental changes
- Reviewed specimen descriptions using digital entries retrieved from the New York Botanical Garden
- Translated textual locality description into a numerical description of that place so that it can be mapped and further investigated

### DNA Barcoding

**Undergraduate Research Assistant** 2016

- Student led research project – Supervised by Dr. Eunice Laurent
- Investigated taxonomy of various species available at the Valencia College greenhouse
- Identified sequences in database using BLAST
- Visualized results using a phylogenetics tree

## Publications

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**Pileggi, M. T.,** Chase J.R., Kaufman, P.E., and Wong, A.C.N. (2019) “Influence of Host Parameters on Prevalence and Co-Occurrence of Antibiotic Resistant Bacteria in Livestock Associated Flies in Florida” *In preparation.*

## Professional training

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- Bioinformatics Workshop
- Confocal fluorescence microscopy
- 10X Genomics - Single Cell Transcriptomics

## Mentoring Experience

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### University of Florida

#### Primary Mentor & Supervisor to:

Juliana Licata, Undergraduate Researcher	2019
Michael Costa, Undergraduate Researcher	2018
John R. Chase, Undergraduate Researcher	2018-2019
<i>Currently: Lab technician in the Oral Biology Lab - Dr. Burne</i>	
Jordan Henderson, Undergraduate Researcher	2018-2019
<i>Currently: Lab technician in the Veterinary Entomology Laboratory - Dr. Kaufman</i>	

## Professional Society Memberships

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Florida Entomological Society

American Society of Microbiology

## Skills/Experience

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- Microsoft Office Suite
- Culture-based microbial techniques
- Microscopy - Dissection, fluorescent, and confocal microscopy
- Insect dissection - Gut dissection and isolation
- Molecular techniques
- Data analysis and visualization using R
- High-throughput sequencing - Nanopore minion sequencing
- Implementing bioinformatic pipelines for NGS data analysis
- Manuscript preparation