



# Raymond (Ray) H. Parcon

Graduate Research Assistant

- Plant Pathology
- Plant Disease Resistance
- Host-Pathogen Interaction
- Molecular Genetics and Genomics

**i** [rhparcon@gmail.com](mailto:rhparcon@gmail.com)  
470-529-8603

**Filipino**  
Nationality

**Athens, Georgia, USA**  
Location

**English, Filipino**  
Languages

**Ph.D. in Plant Pathology**  
University of Georgia

**M.Sc. in Microbiology**  
University of the Philippines Diliman

**B.Sc. in Biology**  
Adamson University



## About Me

Having previously worked on developing biological control agents as an alternative to synthetic fungicides, I became fascinated with how microorganisms interact with their hosts, community, and surroundings to equip themselves with molecular tools for survival.

I develop bioinformatics pipeline for SNP discovery from large genomic data sets, analyze genetic diversity using various R packages and software, and apply qualitative and quantitative tools to define races of *C. soja*.

My research aims to uncover new strategies to enhance plant health and promote sustainable farming practices. By understanding more about host-pathogen interactions and their implications for plant disease resistance, I aim to contribute valuable insights that support more resilient agricultural systems.

## Experience

**Graduate Research Assistant** Jan 2022 – Dec 2026  
*Department of Plant Pathology, University of Georgia, GA, USA*  
Advisors: Dr. Shavannor M. Smith & Dr. James W. Buck

**Instructor III** Aug 2021 – Dec 2021  
*Department of Biochemistry, University of Santo Tomas, Manila City, Philippines*

**Project Consultant** Oct 2021 – Dec 2021  
*Institute of Biology, University of the Philippines Diliman, Quezon City, Philippines*

**University Research Associate II** Jul 2018 – Dec 2020  
*Institute of Biology, University of the Philippines Diliman, Quezon City, Philippines*

**University Research Associate I** Jan 2017 – Jun 2018  
*Natural Sciences Research Institute, University of the Philippines Diliman, Quezon City, Philippines*

**Instructor I** Nov 2014 – Mar 2015  
*Biology Department, Adamson University, Manila, Philippines*



## Skills

