Annalise Maria Wellman

5839 Bay Hill Circle, Lake Worth, FL 33463
annalise.wellman@wur.nl | +1 (561) 374-3740 | linkedin.com/in/annalise-wellman

---

OBJECTIVE

To advance the scientific understanding of plants and their complex biological dynamics through innovative research. I aim to contribute to sustainable agriculture, climate resilience, and food security by studying plants to change the world; integrating education and scientific solutions that improve both people's lives and their understanding of the planet.

EDUCATION

M.Sc. Plant Breeding (Candidate) — *Wageningen University & Research*, The Netherlands
(Expected Summer 2027)

- **Relevant Coursework:** Principles of Plant Breeding; Population Genetics; Plant Pathology and Disease Epidemiology; Plant Biotechnology; Markers in Quantitative Genetics and Plant Breeding; Germplasm and Seed Technology; Breeding for Abiotic Stress Tolerance; Fieldwork Safety; Laboratory Safety; General Safety; Plant Breeding Scientific Skills Cluster

B.Sc. Biological Sciences — *Florida Atlantic University*, Boca Raton, FL
LEARN Scholar, Soar-in-Four Scholar | GPA: 3.01 | December 2022

- **Relevant Coursework:** Interpretation of Fiction; Biodiversity & Lab; Chemistry 1&2 & Lab; Biostatistics; Vascular Plant Anatomy & Lab; Organic Chemistry 1&2; Cell Biology; Microbiology Lab; Introduction to Research 1&2; Plant Physiology Lecture; Genetics; Principles of Genes and Hereditary; Evolution; Introduction to the Nonprofit Sector

---

RESEARCH & PROFESSIONAL EXPERIENCE

Research Intern (Hydroponic Tomato Breeding & Data-Driven Crop Monitoring) — *Farmhouse Tomatoes, FL*, September 2024–Present

- Conducting research on heirloom tomato variety performance in hydroponic systems
- Collecting and analyzing environmental and yield data to optimize climate efficiency
- Designing a trait catalog and statistical models to evaluate genetic variation and correlations

Science Educator — *Palm Beach County School District*, July 2023– July 2025

- Awarded *2024 Central Region Secondary Beginning Teacher of the Year*
- Secured a *$5,000 GoTeach! Classroom Grant* to build a school food forest and greenhouse
- Developed STEM-based curricula integrating plant pathology and genetics concepts

Independent Researcher — *Florida Atlantic University* | January 2020– December 2022

- Led grant-funded projects investigating *KED gene expression* in tomato defense responses
- Utilized qPCR, DNA extraction, and gel electrophoresis to study gene function
- Published in *FAU Undergraduate Research Journal* and *Physiologia Plantarum,* as well as presented at multiple symposia

Newsroom Intern — *Footprint App*, Remote | Nov 2021–July 2023

- Wrote articles on sustainability, biodiversity, and climate change
- Collaborated with international organizations on environmental awareness content

Content Specialist Intern — *McGraw Hill Education*, Remote | Jun 2022–Sept 2022

- Authored and edited science briefings for *AccessScience* digital database
- Published accessible summaries of advanced research in plant and molecular biology

Fundraising & Social Media Intern — *World Peace Association*, Remote | Nov 2021–Feb 2022

- Developed donor outreach campaigns and sustainability-oriented content

Gopher Tortoise Field Researcher — *Deerfield Island Park*, Deerfield Beach, FL | June 2017

- Conducted field surveys of *Gopherus polyphemus* burrows to assess habitat use and population distribution
- Collected GPS coordinates, photographed burrow sites, and catalogued surrounding vegetation
- Organized and analyzed ecological data on burrow characteristics and fauna associations using Microsoft Excel
- Contributed to understanding habitat requirements for a threatened keystone species

---

PUBLICATIONS

Scientific Publications

- **"KED Gene Expression in Early Response to Wounding Stress in Tomato Plants."** *Physiologia Plantarum*, July 2023
- **"Use of CRISPR/Cas9 in the Treatment of Endometrial Cancer."** *AccessScience (McGraw Hill)*, Aug 2022
- **"CRISPR/Cas9-Mediated GUS Gene Knock-Out in Tobacco Plants."** *FAU Undergraduate Research Journal*, 2021

Literary Publications

- **"Of Knives and Spines"** *Best Poets 2023*, Eber & Wein Publishing, March 2024
- **"Midnight Musings"** *Quilted Voices*, Eber & Wein Publishing, June 2023
- ***Open Letters***, Poetry Collection, 2021
- ***The Mess in My Mind***, Poetry Collection, 2018

GRANTS & AWARDS

- GoTeach! Classroom Grant ($5,000), Palm Beach County School District, 2024
- Finalist – Secondary Beginning Teacher of the Year, 2024
- Summer OURI Undergraduate Research Grant ($1,200), FAU, 2021
- NSF LEARN Undergraduate Research Fellowship ($2,000), FAU, 2019
- Pathfinder Award in Communications, *Palm Beach Post*, 2019
- Poetry Nation National Semifinalist — "Of Knives and Pens," 2023
- "Budding Scientist" Scholarship, *Weiser Banjo Camp*, 2020

LEADERSHIP & OUTREACH

- **Co-Social Director** — *American Phytopathological Society*, Graduate Student Committee (2025-2026)
- **Abstract Reviewer** — *American Phytopathological Society*, Plant Health Conference (2025)

- **Guest Speaker** — *Okeeheelee Middle School*, “Genetic Engineering in Plants” (2023)
- **Guest Lecturer** — *FAU Office of Undergraduate Research and Inquiry*, “Getting Published in Research” (2021)
- **Vice President** — *Ecological Society of America SEEDS Chapter*, FAU (2019–2022)
- **Steward** — *Little Free Library*, Lake Worth, FL (2018–Present)

TECHNICAL SKILLS

- **Laboratory:** qPCR, DNA Extraction, Gel Electrophoresis, CRISPR/Cas9, Phenotyping
- **Data Analysis:** R, Excel, Statistical Modeling, Experimental Design
- **Communication:** Scientific Writing, Grant Writing, Copyediting, SEO, Adobe InDesign
- **Software:** Microsoft Office, Google Workspace, ImageJ, Canva

---

LANGUAGES

- English (Native)
- Dutch (Conversational, B1 Level)
- Spanish (Conversational, B1 Level)

REFERENCES

Available upon request