

# Ethan C. Risman

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## EXECUTIVE SUMMARY

Graduate of Biotechnology and Plant Sciences I love the intersection of genomics and bioinformatics and using these disciplines to tackle problems or explore opportunities in the plant sciences. My greatest interests are floral and root genes of spices and herb species. Within a team, I find creative solutions and create compelling narratives to lower costs and drive fundraising.

## EDUCATION

### University of Manchester

Manchester, UK

- MSc Biotechnology and Enterprise. Graduated w/ Honors (3.8 GPA)
- BSc Plant Science. Graduated w/ Honors (3.3 GPA)

Sept 2024

June 2023

## LAB-WORK & RELEVANT SKILLS

### Markin Enzyme & Microfluidics Lab

Manchester, UK

Master's Thesis

Sept 2023 – Sept 2024

- Statistical coupling analysis of terpene synthase genes to see if enzyme efficiency can be optimized in ways conservation analysis has not revealed.
- Validated functional importance in vitro using an E.coli reporter assay and mutant cycling.
- Purified enzyme using chromatography and dialysis in protein extraction protocol.

### USDA ARS NCSL

Fargo, ND, USA

Research Analyst Assistant

June 2023– Sept 2023

- Sunflower (*Helianthus annuus*) breeding lab working on crop resilience, yield, and oil content.
- Integrating GWAS and BSA in silico to discover gene within hybrid sunflower that favors weevil resistance.
- Used GATK, Samtools, and other packages to build draft pipeline.

### Kim Plant Sciences Lab Manchester, UK

Manchester, UK

Lab Volunteer

Aug 2022 - Apr 2023

- Plant lab working on genotyping, sequencing, and phenotyping of floral genes in *Kalanchoe* genus.
- Experienced in DNA extraction, PCR, Primer design, agrobacterium transfer, phenotyping, statistical analysis.
- Mastered excel for data analysis and predicting plant growth.

## LEADERSHIP & ACTIVITIES

### University of Manchester Botanical Society

Manchester, UK

Founder & Co-Chair; Treasurer

Sept 2021 – Sept 2022

- Organize and marketed community outreach and volunteering, securing dozens of unique volunteers each week.
- Raised 900 GBP for the Society: 400 GBP through the universities fundraising infrastructure, 500 GBP through independent outreach and pitching.
- Established roles and guides for future committee members, ensuring continuity and a self-sufficient society.

### Business Development Society

Manchester, UK

VP of Events

Sept 2023 – May 2024

- Successfully managed spring banquet, reducing costs by 50% during an inflation year while achieving a 22% margin.
- Reestablished and reengaged the current members with alumni through consistent communications.
- Marketed and organized society events and raised 916 GBP during my tenure.

### University of Manchester Student's Union

Manchester, UK

Student Representative

Sept 2021 – June 2023

- Used Qualtrics to gain insights and opinions from peers regarding student concerns and course content feedback.
- Presented findings to the faculty in bi-monthly meetings.

## WORK EXPERIENCE

### Sea & Air International Inc.

New York City, NY, USA

International Relocation Consultant

Mar 2020 – Sept 2020

- Built clientele of the Australian community of NY through social media and word of mouth.
- Managed \$500,000 worth of sales, 35% of total sales over the period in a sales force of 5.
- Journalled and managed leads over a 4 month period.

## LANGUAGES, INTERESTS, & SKILLS

- Spanish, Hebrew (Beginner)
- Python, Command Line, R (Advanced)
- History, Governance, & Politics
- Cooking, Skiing, Squash