

JUSTINE MACALINDONG

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EDUCATION:

Expected May 2022 **Bachelor of Science in Integrative Biology**
University of Illinois Urbana-Champaign (UIUC)
Minor in Informatics

Cumulative GPA: 3.58/4.00

Project title: “Changes in pollinator anti-predator behavior in areas with increased soil organic carbon.”

RESEARCH EXPERIENCE:

May 2020 – Present Undergraduate Researcher

The Harmon-Threatt Lab, University of Illinois Urbana-Champaign

- Conducted an independent research project during the summer of 2020 on how changes in soil organic carbon affect floral resource quality and anti-predator foraging behavior in pollinators.
- Led sampling observation periods and collected plant tissue samples once a month during June, July, and August.
- Analyze data, generate graphs, and create statistical models of data collected using R.
- Operated elemental combustion system to analyze plant tissue samples for C:N.

June 2021 – Aug. 2021 Summer Research Intern

Small Grains Improvement, University of Illinois Urbana-Champaign

- Participated in research working to accelerate the genetic improvement of small grains to help sustain people and the environment both regionally and internationally.
- Recorded field data such as heading time, scab severity and incidence, and height of oat and wheat plants.
- Operated threshing, combine, and grain cleaning equipment in the field and laboratory.
- Assisted in field maintenance by roguing plants with undesirable phenotypes.

Jan. 2020 – Aug. 2020 Undergraduate Research Assistant

The Harmon-Threatt Lab, University of Illinois Urbana-Champaign

- Assistant to Ph.D. student in the Harmon-Threatt Lab on a research project about how trophic interactions affect bee communities in areas with a reintroduced predator.
- Measured the physical traits of bees and spiders using ImageJ.
- Accurately entered experimental data into a spreadsheet.

RESEARCH FUNDING:

2020	Undergraduate Research Support Grant, Office of Undergraduate Research, UIUC	\$2,000
2020	Bee Researcher Undergraduate Award, School of Integrative Biology, UIUC	\$1,000

WORK EXPERIENCE:

Feb. 2022 – Illinois Undergraduate Research Ambassador

Present Illinois Office of Undergraduate Research Urbana, IL

- Represent and promote the mission of OUR to current and prospective students.
- Hold one-on-one meetings to mentor students through the undergraduate research experience at the University of Illinois.
- Attend and facilitate various events created by the OUR staff to showcase programs, grants, and resources the office provides for UIUC students.
- Serve on the student advisory board and provide critical feedback about OUR programs and initiatives.

Feb. 2022 – Undergraduate Assistant

Present Grainger College of Engineering Undergraduate Research Urbana, IL

- Assist in planning, organizing, and running events for the engineering undergraduate research.
- Create announcements and flyers for undergrad research opportunities and events.
- Build and execute social media strategy by creating and publishing content on social media platforms.

Aug. 2021 – Physics 102: Electricity and Magnetism Learning Assistant

Present Department of Physics, University of Illinois at Urbana-Champaign Urbana, IL

- Collaborate with lab instructors to recognize issues students face during experiments and recommend solutions.
- Assist lab instructors with lab preparation by gathering materials required for each experiment and setting up equipment.
- Work with lab instructors to create and modify laboratory experiments to be performed by students in class.
- Attend pedagogy of teaching course and lab preparation meeting weekly to learn skills and expectations in teaching.

LEADERSHIP AND ACTIVITIES:

2021 – Present Beta Psi Omega, Professional Biology Fraternity – Historian

2020 – Present The Harmon-Threatt Lab – Lab Member

Illini Esports – Graphic Design Artist

In Between UIUC – General Member

2019 – Present Beta Psi Omega, Professional Biology Fraternity – General Member

2020 – 2021 Beta Psi Omega, Professional Biology Fraternity – Public Relations Chair

2019 – 2020 Carle Foundation Hospital – College Student Volunteer

ADDITIONAL SKILLS:

- Programming Languages: R and Python
- Proficient in Microsoft Office
- Report findings in a concise, scientific format with proper citations
- Collect, enter, analyze, and visualize experimental data
- Working effectively in groups

RELEVANT COURSEWORK:

- Genetics (IB 204), Ecology (IB 203), Evolution (IB 302), and Physiology (202) all with lab
- General Chemistry I (CHEM 102) and General Chemistry II (CHEM 104) with lab
- Elementary Organic Chemistry I (CHEM 232) with lab (CHEM 233)
- Introductory Biochemistry (MCB 450)
- Biostatistics (STAT 212) and Biocalculus (MATH 220)
- Introduction to Data Science (IS 407)
- Introduction to Programming for Data Science (INFO 490)