

# Chanda Anand

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## EDUCATION

*University of Wisconsin Oshkosh*

**Bachelor of Science in Biology**

Emphasis: **Microbiology**

Overall GPA: 3.6/4.0

Oshkosh, WI

May 2021

Minor: **Chemistry**

Major GPA: 3.7/4.0

## RELATED SKILLS AND KNOWLEDGE

- Conducted naturalistic herpetological survey of Florida Keys and Everglades
- Identified species of reptiles and amphibians as part of class research project
- Utilized a spectrophotometer to observe and document spectrums of different solutions as part of study about major cellular constituents and their metabolism

## RESEARCH AND INTERNSHIP EXPERIENCE

*University of Wisconsin Oshkosh, Biology Department*

September 2020 – Present

**Student Researcher**

Oshkosh, WI

- Secure \$25,000 in funding by writing grant proposal with faculty for a cancer prevention campaign
- Conduct research on the effects of cancer in underrepresented populations
- Presented research findings at a National Association of Professional Biology Conference

*Centers for Disease Control and Prevention*

June 2020 – August 2020

**Division of Health Studies Intern**

Atlanta, GA

- Researched populations at-risk of increased exposure to automobile pollution in metropolitan Atlanta
- Collaborated with the Geospatial Research, Analysis, and Services Program (GRASP) by evaluating populations at-risk of increased exposure from automobile pollution given proximity to high traffic roads
- Applied spatial techniques to identify and evaluate the distribution of women over age 40 shown to have increased risk of cardiovascular events

*Animal Facility, The NEW Zoo*

June 2019 – August 2019

**Animal Care Intern**

De Pere, WI

- Ensured safety and health of 5 giraffes by serving as primary caretaker for animal exhibit
- Maintained an environment suitable for wildlife captivity based on federal regulations
- Performed animal husbandry and administrative duties with managerial and supervisory responsibilities

## LAB EXPERIENCE

*University of Wisconsin Oshkosh*

January 2018 – May 2018

**Public Health Lab Associate**

Oshkosh, WI

- Collected data about cancer causing agents in the Fox Valley Region for a Ph.D. in Public Health
- Charted plot data for further analysis to be incorporated into a scholarly research paper
- Cultured healthy human cells and exposed them to potential carcinogens in a controlled environment
- Utilized radon detection monitors to gather data points throughout Northeastern Wisconsin to compare to known areas of high occurrence lung cancer

## GLOBAL RESEARCH EXPERIENCE

*The Volunteer Bay*

June 2018 – July 2018

### **Volunteer Researcher**

Nicoya Peninsula, Costa Rica

- Monitored varied species of adult female turtles that nest on the beach to develop and propose a conservation strategy for the protection of these animals
- Found areas of research in biodiversity for use by students and international students from state and private universities to develop their dissertations
- Fostered community outreach and environmental education activities to reduce the dangers of sea turtle species extinction

## PUBLICATIONS

Koothrappali, R. Hofstadler, L., & Anand, C. (2019). Understanding the Effects of Cancer in Underrepresented Populations. *Oshkosh Scholar*, 10 (3), 150-165.

## ACTIVITIES & LEADERSHIP

- **Scholar**, *UW Oshkosh McNair Scholar Program*, Oshkosh, WI September 2017 – Present
- **Member**, *UW Oshkosh Honors College*, Oshkosh, WI September 2017 – Present
- **Team Leader**, *Oshkosh Relay for Life: American Cancer Society*, Oshkosh, WI October 2017, 2018
- **Executive Board**, *UW Oshkosh Clemens Hall Council*, Oshkosh, WI September 2017 – May 2018

## OTHER EXPERIENCE

- **Admissions Office Tour Guide**, *UW Oshkosh*, Oshkosh, WI February 2018 – Present
- **Volunteer**, *Cancer Hospice House of Wisconsin*, Green Bay, WI May 2017 – Present

## PRESENTATIONS

- *Immunoglobulin Processes*: Observed interactions of antigens and antibodies through immunoassay, Western Blot, and Eliza tests on immune serums and antibodies
- *Electrophoresis: An Experimental Technique*: Cell functions depending on the pH of different fluids and procedure of electrophoresis
- *Molecular Characterization of Mutated and Mating Drosophila Melanogaster*: Ability for Drosophila melanogaster to mate with other flies producing mutations
- *Organic Chemistry Skills to Know*: Nomenclature, preparations, reactions, and reaction mechanisms of functional groups of aliphatic and aromatic compounds

## ORGANIZATIONS

- **Member**, *UW Oshkosh Chemistry Club*, Oshkosh, WI February 2018 – Present

## CONFERENCES ATTENDED

- *Association of Professional Biology Conference*, Nelson, BC, Canada May 2020
- *American Association for the Advancement of Science Conference*, Boyd, MN June 2019
- *University of Wisconsin Oshkosh Celebration of Scholarship*, Oshkosh, WI May 2019