

Isabella S. Batallas
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Education

Bachelor of Science, Biology: Pre-Dental; 3.9 GPA

Kennesaw State University, Kennesaw, Georgia
Augusta University, Augusta, Georgia
Georgia State University, Atlanta, Georgia

Honors Scholar: Summa Cum Laude

Alumni, Spring 2019
SEEP, Summer 2019
Spring 2015

Research

“Differential Analysis of Individual *Centruroides vittatus* Venom”

Isabella Batallas, C. Neal McReynold, Kelci Knight, Whitney Smith, Thomas McElroy and Eric A. Albrecht
Centruroides vittatus scorpions were delivered to me to be fed, measured, and weighed before being housed individually and watered daily, as well as fed *Acheta domesticus* (crickets). After 4 months of living in these controlled environmental conditions, extraction of their venom began. I resourcefully had to prepare a structured method for extracting the scorpions’ venom and once collected, I ran very careful and tedious tests, such as protein estimation and SDS-PAGE. My research is comparing mature individual scorpions, and separately, comparing pooled scorpions of different grouped sizes to determine if there are additional reasons to venom variation besides the environmental factors I controlled.

Publications and Presentations

Symposium of Student Scholars

April 2018

- Confidently vocalized my scorpion research and gained perspectives of other undergraduate and graduate research findings

Analytics Day

April 2019

- Proficiently presented my partner’s and my binary regression model that we created using SAS and R

Awards and Honors

Professional

Nominated Employee of the Year at Alma Cocina

2017

Academic

Student Educational Enrichment Program (SEEP) Attendee at Augusta University (AU) Summer 2019

- Successfully admitted and joyously completing a competitive program of the Medical and Dental College at AU that consists of summer courses, networking and clinical experience
- Awarded by professor for earning second highest grade in the Health Disparities course
- Awarded by peers for “Most Compassionate” superlative

Summa Cum Laude

Spring 2019

Birla Carbon Scholar

May 2018

- Gratefully awarded one of the 10 spots available for the program that allows further dedication to current research and exposure of work at the Birla Carbon Symposium

President’s List at Georgia State and Kennesaw State

Jan 2015-Dec 2016

- Vigorously earned a 4.0 grade point average per term

Dean’s List at Kennesaw State

May 2017-May 2019

- Energetically maintained at least a 3.5 grade point average

Hope Scholarship

Academic Affiliations

Member of the Pre-Dental Club

June 2018-Present

- Impressions Program: Dental College of Augusta University

February 2019

Member of the American Sign Language Club

Aug 2016-May 2019

Member of the Swing Dance Association

Aug 2015-Aug 2017

Leadership and Professional Service

Shadowing Dr. Slocum at Today's Dentistry

January 2019-Present

- Enthusiastically increasing knowledge of dental practices, teachings, and equipment
- Energetically gaining additional insight to ideas and practices on previously observed procedures and businesses

Shadowing Dr. Amason at The Amason Family Dentistry

June 2018-Dec 2018

- Engagingly observed management, bookkeeping, front of desk, dental assistant, and dentist duties
- Passionately gained insight on the anatomy of teeth and oral procedures, such as fillings, seating crowns, and cleanings

Spanish Club President

Aug 2016-Aug 2017

- Creatively attracted members with elaborate events and activities that aid in the understanding and improvement of the Spanish culture
- Thoughtfully sorted roles for club positions to have a stable, well-run club, while using the strengths of others

Relevant Courses

Calculus I

- Learned multiple functions and their graphs, limits and continuity, derivatives and their applications, and integrals

Applied Binary Classification

- Pre-requisites: Computer Applications of Statistics; Biostatistics; Statistical Methods I/II
- Enhanced my proficiency in Excel, SAS, R, and Python by applying to real life studies, especially biological studies and terms
- Developed skills to perform data discovery, prepare over 400 variables, and develop a binary classification model with a dataset that had over one million observations

Introductory to Physics I/II with Lab

- Physically and mentally developed knowledge on vectors, forces, energy and kinematics, rotation and simple harmonic motion, and electric and magnetic fields

Biochemistry with Lab

- Pre-requisites: Introductory to Chemistry I/II; Organic Chemistry I/II
- Strengthened my connections with functional groups, intermolecular interactions, biomolecules and experimenting with precise chemical reactions that produce their specific functions

Cell Biology with Lab

- Pre-requisites: Introduction to Biology I/II; Ecology; Genetics
- Gained a better understanding on lab techniques, such as microscopy, fractionation, chromatography and electrophoresis, as well as looking at the connectivity of the organelles within a cell and their intertwined functions

Medical Microbiology with Lab

- Pre-requisites: Microbiology
- A multidisciplinary class that allowed students to apply knowledge of immunology, anatomy, physiology, and etc. to diagnose or evaluate case studies where patients were expressing historical background and symptoms.
- Elaborated on the skills and techniques from microbiology lab to perform independent test on identifying our own microbial flora as well as the supplied pathogen's for infectious patients.

Community Service

Public Health Related

Volunteer at Children's Healthcare of Atlanta

Aug 2016-May 2017

- Eagerly assisted therapists by engaging and supporting the patients, as well as sanitizing the equipment
- Effectively exceeded distributing paperwork and uncluttering cabinets to familiarizing myself with the hospital's database, so that I could organize appointments and assist patients at the front desk

Other Services

Habitat for Humanity

April 2019

- Delightfully attended an alternative spring break that involved learning leadership and teamwork skills, while assisting seniors with home improvements such as painting houses and yard treatment

Bridgepointe Church

Aug 2015-Aug 2017

- Playfully welcomed members of the church and checked-in their children for their respective programs

Employment

Alma Cocina || Atlanta, Georgia

June 2014 – Oct 2019

Waitress and Trainer

- Communicated respectfully and knowledgeably with guests, chefs, and coworkers
- Professionally and patiently satisfied guests' complaints and understood the expected, expressed, and non-expressed needs of guests
- Promoted a productive, teamwork-friendly environment in a high-volume restaurant
- Encouraged sanitation and being prepared by performing housekeeping tasks and next-day preparations
- Meticulously trained new employees

Supplemental Instruction || Kennesaw, Georgia

Dec 2018-May 2019

Leader for Biochemistry

- Passionately translated biochemical ideas into interactive and knowledgeable group and individual activities in a safe and open learning environment
- Professionally connected with professors, other leaders and students in office hours to enhance my performance as well as the performance of others and the program itself

South City Kitchen || Buckhead, Georgia

Aug 2018 – Nov 2018

Waitress and Trainer

- Educated the new staff on the Fifth Group values for creating a unique dining experience for the guest
- Demonstrated and enforced being productive among all coworkers
- Generated a positive and fun attitude, while quickly keeping up with the brunch rushes
- Provided a pleasant and efficient experience for the guests by meeting their food and service expectations

Supplemental Instruction || Kennesaw, Georgia

Dec 2016-Dec 2017

Leader for Introductory to Chemistry I

- Artistically prepared students for course by demonstrating effective study habits and providing resources to enhance their critical thinking with the aid of their peers and me.
- Respectively collaborated with other SI leaders, supervisor and my assigned professor to benefit the program, the students, and drive my tutoring efforts.

Languages Spoken

Intermediate in Spanish

Beginner in American Sign Language

Beginner in Greek