

Sarah E. Hantz

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EDUCATION

Smith College, Northampton, MA GPA: 3.39
Bachelor of Arts in Biological Sciences; Minor: German Studies 2015-2019
Junior Year Abroad: Smith College Hamburg Program Spring 2018

Relevant Coursework: Animal Physiology and Lab; Cells, Physiology, & Development and Lab; General Chemistry I and Lab; Genomes & Genetic Analysis and Lab; Intro to Neuroscience; Biodiversity, Ecology, & Conservation and Lab; Ecophysiology and Lab; Marine Ecology and Lab; Basic Statistics; Intro to Computer Science; Intro to Engineering.

Awards: Amey Randall Brown Prize in Botany

SKILLS

Laboratory: DNA isolation, PCR amplification, gel electrophoresis, Sanger sequencing, sample quantification, crayfish and barnacle collection and handling.

Technical: EPIC, Rave, Velos, TRIAD, R Studio, Python, SeaView, Basic Local Alignment Search Tool (BLAST), DNA Master, LabChart, Logger Pro 3.8.2, and Microsoft Office.

Languages: German: intermediate writing and verbal; Spanish: beginner verbal.

CURRENT WORK (since March 2024)

Sales Associate – Anthropologie, San Antonio TX

- Assist customers in the fitting room by providing personalized outfit recommendations to complement their selections
- Process customer transactions at the cash register
- Provide floor support by offering assistance, answering product inquiries, and informing customers of current promotions and sales
- Manage incoming inventory by unpacking and censoring new merchandise, ensuring timely and accurate stock replenishment
- Collaborate with coworkers to maintain smooth store operations and deliver exceptional customer service throughout the day

RESEARCH EXPERIENCE

Research Technician Intermediate -- Mays Cancer Center, San Antonio TX

May 2021-
March 2023

- Collects, enters, and manages data for cancer patients who are enrolled into clinical trials using online databases.
- Works within a small team with 20 active studies and over 100 patients.
- Responsible for organizing source documents into patient binders, recording funding information online, and keeping an updated schedule of patient appointments and data due dates to support project coordinators.

Ignace Laboratory – Smith College, Northampton, MA

January –
August 2019

Principle Investigator: Dr. Danielle Ignace

- Created artistic concept design to demonstrate effects of invasive species, *Erodium cicutarium*, in native plant community in the Chihuahuan desert.
- Participated in weekly meetings about professor's ecophysiology research and students' independent projects.

PTC tasting experiment – Smith College Genomes & Genetic Analysis Lab

January – May
2019

- Determined which classmates had the taster allele for PTC on the TAS2R38 gene by isolating DNA from human cheek cells and using PCR amplification, gel electrophoresis, and Sanger sequencing.

Independent research project - Smith College Ecophysiology Lab

September –
December
2018

- Determined which plant traits (total biomass, aboveground woody biomass, root biomass, foliage biomass, and plant age) affect the resilience of an ecosystem to disturbance. Used a biome climate's total Net Primary Production (NPP) to represent ecosystem stability.

<ul style="list-style-type: none"> Gathered data and used R Studio for statistical analysis. Awarded Amey Randall Brown Prize in Botany for presented independent research poster on this project. 	
Invertebrate respiration experiment – Smith College Animal Physiology Lab <ul style="list-style-type: none"> Studied crayfish (<i>Orconectes virilis</i>) respiration rates in presence of various olfactory and visual stimuli. Placed crayfish in water chamber and used a Vernier Optic Dissolved Oxygen Probe and Logger Pro version 3.8.2 to record the rate of dissolved oxygen when exposed to stimuli. 	September – December 2017
Effects of music tempo on heart rate experiment – Smith College Animal Physiology Lab <ul style="list-style-type: none"> Used a Finger Pulse Transducer and LabChart computer software to collect heart rate data on human subjects when listening to various classical music songs. 	September – December 2017
Independent research project – Smith College Marine Ecology Lab <ul style="list-style-type: none"> Studied the recovery of barnacles (<i>Semibalanus balanoides</i>) from copper poisoning by measuring cirri movement in seawater treated with various levels of copper sulfate. 	September – December 2016
Copper retention experiment – Smith College General Chemistry I Lab <ul style="list-style-type: none"> Used organic resources to remove copper contamination from water. Combined copper solutions with potting soil, coffee grounds, and black tea to determine which filtered copper most efficiently. Used Go Direct® SpectroVis® Plus Spectrophotometer to measure copper in both the organic resource and solution. 	September – December 2016
Engineering design project – Smith College Engineering Course <ul style="list-style-type: none"> Designed and produced a working, miniature, “tree house” model powered by solar energy with team members. Model consisted of LED lights and infrared lights connected to solar panels and a Propeller microcontroller programmed with PropellerIDE. 	January – May 2016

POSTER PRESENTATIONS

Hantz, S. E. *What plant traits determine the resilience of an ecosystem to disturbance?* Poster presented at Smith College’s Course-based Research Poster Symposium in December 2018 and Smith College’s Celebrating Collaborations in April 2019, Northampton, MA.

WORK EXPERIENCE

Private event caterer – San Antonio, TX <ul style="list-style-type: none"> Assisted in set up and clean up for wedding rehearsal dinner. Served food and drinks to guests throughout the evening. 	November 2019
Shadowed Oncologist – Precision Cancer Center, San Antonio, TX <ul style="list-style-type: none"> Shadowed Dr. Suresh Dutta and his radiation therapist. Learned how to screen, diagnose, and treat different cancer types as well as how to operate the radiation machine. Exposed to everyday operations such as patient database maintenance, billing, and scheduling. 	January 2018
Shadowed Radiologists – University Baptist Hospital, San Antonio, TX <ul style="list-style-type: none"> Shadowed Drs. Christopher Muniz and Wendy Whitford. Observed various medical procedures including biopsies and minor surgeries. Learned how to analyze and interpret x-rays and MRI scans. 	January 2017
Telemarketer & Sales Rep – Capstone Office Products LLC and Cornerstone Office Systems Inc, Fairfax, VA <ul style="list-style-type: none"> Learned company inventory and mission statement in order to pitch products to customers. Solicited prospective customers directly by telephone, entered new customer information into the online company system, and sent follow-up instructions for accessing their account through email. Utilized friendly, persuasive strategies to break down prospective customer’s objections and answer their questions. 	June 2016

COMMUNITY SERVICE

Smith College House Council: Wilson House – Northampton, MA	2015 - 2018
<ul style="list-style-type: none"> • Elected by students of Wilson House to serve in the following positions: Head of New Students (HONS), Secretary, Junior Class Representative, Co-designer Senior Banquet, and Ecology Representative. • HONS is a student-led organization that helps freshman move into dorms and acclimate to college life. This position requires a week-long training session, strong interpersonal, leadership, and organizational skills, and attendance at monthly meetings. 	
Valero's Thanksgiving with the Troops – Valero Energy, San Antonio, TX	2010 - 2018
<ul style="list-style-type: none"> • Served dinner on Thanksgiving Day to local military members stationed in San Antonio. • Acted as waiter, kitchen aid, game station leader, greeter, and clean-up crew. 	
Food Bank – San Antonio, TX	June – August 2017
<ul style="list-style-type: none"> • Helped prepare meals for local children in need and organized and sorted donations. 	