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

University of Texas, San Antonio, TX — 2024-2025
UTSA Coding Bootcamp Certificate Program

Awards: Amey Randall Brown Prize in Botany

SKILLS

Coding: HTML, CSS, CSS Frameworks, Client-Side JavaScript, Web/DOM APIs, Local Storage, Node.js, Express.js and Web Server Frameworks, Third-Party APIs, Object-Oriented Programming, TypeScript, SQL, PostgreSQL, Prompt Engineering, Unit Testing, Snapshot Testing, Cypress Integration Testing, React, GraphQL, MongoDB, Python, OOP in Python, CI/CD Pipelines, GitHub Actions, Render (deployment, platform as a service)

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.
- 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 — September – December 2017

- Studied crayfish *(Orconectes virilis)* 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.

Independent research project – Smith College Marine Ecology Lab — September – December 2016

- Studied the recovery of barnacles (*Semibalanus balanoides)* from copper poisoning by measuring cirri movement in seawater treated with various levels of copper sulfate.

Copper retention experiment – Smith College General Chemistry I Lab — September – December 2016

- 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.

Engineering design project – Smith College Engineering Course — January – May 2016

- 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.

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.

OTHER WORK EXPERIENCE

Private event caterer – San Antonio, TX — November 2019

- Assisted in set up and clean up for wedding rehearsal dinner.
- Served food and drinks to guests throughout the evening.

Shadowed Oncologist – Precision Cancer Center, San Antonio, TX — January 2018

- 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.

Shadowed Radiologists – University Baptist Hospital, San Antonio, TX — January 2017

- 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.

Telemarketer & Sales Rep – Capstone Office Products LLC and Cornerstone Office Systems Inc, Fairfax, VA — June 2016

- 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.