Sofia Garman

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EDUCATION

Washington & Jefferson College, Washington, PA
Bachelor of Arts, Major in Spanish, Minor in Biology ....May 2019
Bachelor of Arts, Major in Biology...May 2020
Cum Laude (3.51), Dean's List (4 semesters)
Universidad de Costa Rica, San José Sede San Ramón, Costa Rica ....Jan-May 2017
USAC Specialty Study Abroad Program in Upper Division Sciences

PUBLICATIONS

Brennan, J., Jain, L., **Garman, S.,** Donnelly, A., Wright, E.S., & Jamieson, K. Sample-efficient identification of high-dimensional antibiotic synergy with a normalized diagonal sampling design. *Plos Computational Biology, 2022.*

AWARDS

Washington & Jefferson College Trelka Prize for undergraduate original scientific research......................June 2020

RESEARCH EXPERIENCE

University of Pittsburgh Department of Biomedical Informatics ....Feb 2021-Oct 2022
- Assessed and characterized interactions between high-order antibiotic combinations with various strains of *E. coli*
- Programmed and operated liquid-handling robots to carry out large-scale high-throughput experiments
- Mentored high school student with wet laboratory tasks and experiments

Washington & Jefferson College ....June-Dec 2019
Independent Study: *Anthropogenic nonpoint source pollution in southwestern Pennsylvania: Antibiotic resistance profiles of enteric bacteria from fecal samples of wild birds*
- Developed a proposal for the investigation which was reviewed and approved by the Biology department
- Designed a non-invasive method for collecting fecal samples from wild birds
- Conducted a series of experiments to analyze the antibiotic resistance profiles of enteric bacterial isolates
- Completed a manuscript and delivered an oral presentation of the research to the Biology faculty

Washington & Jefferson College .... Feb-May 2018
- Isolated actinomycetes from soil samples on campus to assess their antibiotic-producing properties
- Performed antibiotic susceptibility assays on bacterial isolates to determine their resistance capabilities
- Identified the bacterial isolates using PCR to amplify the 16S rDNA genes
- Compiled data in a manuscript and wrote a scientific research poster which was presented in the Spring 2018 Student Research Poster Session at W&J

ADDITIONAL EXPERIENCE

Covance, Somerset, NJ.. Mar-Oct 2020
Large Animal Study Technician
- Lead technician for a non-GLP non-human primate study
- Specialized in performing laboratory procedures with non-human primates, canines, and swine
- Carried out study procedures with precision and accuracy under direct supervision of study sponsors
- Responsible for adhering to company SOP's and sponsor-approved study protocols

Medvet Animal Hospital, Pittsburgh, PA ....May 2018- Aug 2019
Emergency Veterinary Receptionist & Client Representative
- Expedited triage processes by assessing emergencies and relaying medical information to the veterinarians and technicians

- Liaised between clients, medical staff, and referring veterinarians
- Briefed pet owners regarding general care and treatment options as directed by veterinarians

Jefferson Hospital – Allegheny Health Network, Jefferson Hills, PA.. Sept-Dec 2017
Health Coach Intern
- Elected as a health coach for patients with comorbidities recently discharged from the hospital
- Created personalized goals and convenient plans to increase the patients' overall health and wellbeing at home
- Collaborated with doctors on the patient's progress and improvements

COMMUNITY SERVICE EXPERIENCE

Western Pennsylvania Humane Society, Pittsburgh, PA 2014–Present
Dog walker & cat caretaker
- Cleaned and maintained cages and open areas for cats and dogs

Veterinaria El Tremedal, San Ramón, Costa Rica... Jan-May 2017
Volunteer Veterinary Assistant
- Assisted veterinarians when needed
- Trained to groom, clean, and feed pets

Universidad de Costa Rica, San José Sede San Ramón, Costa Rica .... Jan-May 2017
Volunteer English Teacher
- Taught English for non-English speaking students with Asperger's Syndrome

LEADERSHIP & AFFILIATIONS
- Phi Sigma Biological Honor Society..2020-Present
- National Society of Leadership and Success 2018-Present
- Sigma Delta Pi National Hispanic Honor Society..2018-Present
- Alpha Phi Omega National Service fraternity 2017-Present