ESTEBAN TAPIA

TUCSON, AZ ● +1 (559)-371-7854

DETAILS

Tucson, Arizona
+52 (662)-122-4856
tapiao.e@outlook.com

LANGUAGES

English

Spanish

Japanese

SKILLS

- Extensive laboratory and crop field research trials experience with biological data and quality control.

- Bilingual; fluent in English and Spanish with technical writing, translation and teaching experience.

- Proficient in Python and R for data analysis and visualization, with experience in HTML, CSS, and JavaScript for web development.

- Proactive self-learner with demonstrated ability to independently acquire and apply knowledge, leveraging online resources, technical documentation, and practical projects.

- Basic/Intermediate Japanese language communication, supported by possession of the N5 level JLPT (Japanese Language Proficiency Test) certificate.

- Disciplined, professional attitude, strong work ethics, detail oriented, with excellent verbal and written

PROFILE

Biologist and Computer Systems Engineer with experience in analyzing and interpreting vegetation dynamics, ecosystem data, and crop-oriented biological information. Skilled in Python and R for statistical analysis, remote sensing, and environmental modeling, as well as web development using modern frameworks and technologies to create interactive platforms for scientific applications.

I have hands-on experience conducting research trials in the field, including data collection, experimental design, and analysis of environmental variables to assess vegetation and crop performance. Through team collaboration and self-driven learning, I have contributed to impactful projects, such as satellite imagery analysis for vegetation monitoring, the development of real-time crop observation systems, and web-based solutions for visualizing biological and environmental data.

My disciplined, proactive approach and strong collaboration skills enable me to generate meaningful insights that bridge biology, data science, and technology. Additionally, I have experience teaching English and basic Japanese, as well as transcribing Spanish audio for captioning, ensuring precise representation of spoken dialogue in various contexts.

EMPLOYMENT HISTORY

Junior Satellite Imagery Analysis at Universidad De Sonora, Hermosillo
September 2022 — July 2024

- Collect satellite imagery data and photographs to study vegetation dynamics within arid ecosystems and anthropological activities in Sonora, Mexico.

- Utilize statistical analysis techniques and R to identify patterns and trends in arid ecosystem vegetation, leveraging satellite imagery data from Google Earth Engine for advanced visualizations.

R&D Junior Field Technician/ Junior Data Analyst at Morning Star - Gradient, Fresno, CA
May 2022 — December 2023

- Sampling tomato leaves, acquiring nutrition laboratory analysis, and subsequently disseminating results to agronomists responsible for fertilizing, irrigating, and other pertinent activities, all aimed at fostering a robust crop health regime and ensuring optimal yields.

- Install and maintain various sensors for crops, including humidity, weather stations, and infrared devices in field; conduct regular maintenance checks and ensure proper functioning.

- Implement data generated by sensors to monitor environmental conditions into a live software application, providing growers with real-time access to crop health and irrigation data.

- Leveraging Python for data visualization, by enhancing understanding of vast

communication skills; able to follow detailed procedures accurately and reproducibly.
- Music Producer

datasets, enabling informed decision-making and strategic planning.

- Satellite imagery data analysis, specifically focusing on vegetation indices, to contribute to discovery of patterns aimed at forecasting tomato crop yields.

- Collaborate with agronomists to analyze sensor data and make informed decisions regarding fertilization, irrigation, and other crop management practices.

English & Japanese Language Teacher at Self-Employed, Hermosillo, Remote
December 2017 — April 2024

- Implemented behavior modification strategies, resulting in improved self-regulation and classroom participation among students.

- Enhanced learning experiences by incorporating specialized tools and resources tailored to the needs of special education students.

- Evaluated student progress through regular assessments, providing timely feedback and adapting teaching methods as needed for individual success.

- Increased student proficiency in spoken Japanese through interactive conversation activities and one-on-one feedback sessions.

- Provided one-on-one support for students with learning disabilities, enabling them to excel in their coursework.

Captioning Agent at CaptionCall, Tucson, AZ
January 2017 — September 2017

- Transcribe audio content in real-time for captioning purposes, ensuring accurate representation of spoken dialogue.

- Caption audio content, providing accessible communication for users with hearing impairments and operated captioning software and equipment to synchronize captions with live audio feeds.

- Monitor captioned content for accuracy and make necessary adjustments to ensure clarity and coherence.

- Collaborate with technical support teams to troubleshoot any issues related to captioning software or equipment.

- Maintain confidentiality and professionalism while handling sensitive or private audio content.

- Adhere to established guidelines and standards for captioning accuracy and quality.

Seasonal Research Associate: Table Grape Bud Analysis. at CUPROSA, Hermosillo, Sonora
September 2014 — December 2018

- Determined grape bunch amount per bud, relative bunch size, and diagnosed fruitfulness problems using intricate dissection and microscopy techniques. Findings determined farming decisions and crop management.

🎓 EDUCATION

Biology (B.S), Universidad de Sonora, Hermosillo, Sonora, México

Computer Systems Engineering (B.S), Universidad Virtual Del Estado De Guanajuato, Purísima De Bustos, Guanajuato, México

★ CERTIFICATIONS

Japanese Language Proficiency Test - N5

December 2018

Achieved Japanese Language Proficiency Test (JLPT) N5 certification, demonstrating basic understanding of Japanese vocabulary, grammar, and conversational skills.