

ESTEBAN TAPIA

Hermosillo, México

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LINKS

[*LinkedIn*](#), [*GitHub*](#)

PROFILE

Biologist and computer engineer with experience analyzing and interpreting vegetation, and crop-oriented biological data, leveraging tools like Python and R, as well as web development skills in HTML, CSS, JavaScript, Grid, and Bootstrap. Through teamwork and self-learning, I've contributed to impactful projects like analyzing satellite imagery and developing real-time crop monitoring systems. My disciplined, proactive approach and strong collaboration skills drive meaningful results.

EMPLOYMENT HISTORY

❖ **Research Associate (Junior Satellite Imagery Analysis Intern),** Sep 2022 — Jul 2024
Universidad De Sonora Hermosillo

- 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 (Internship),** May 2022 — Dec 2023
Morning Star - Gradient Fresno, CA

- 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 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, Self-Employed** Dec 2017 — Apr 2024
..... Hermosillo, Remote

- 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, CaptionCall** Jan 2017 — Sep 2017
Tucson, AZ
 - 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., CUPROSA** Sep 2014 — Dec 2018
Hermosillo, Sonora
 - 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

- ❖ **Universidad de Sonora** Aug 2019 — Jul 2024
Biology Hermosillo, Sonora, México
- ❖ **Universidad Virtual Del Estado De Guanajuato** Jan 2022 — Aug 2025
Computer Engineering Purísima De Bustos, Guanajuato, México

SKILLS

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| <ul style="list-style-type: none"> - 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. | <ul style="list-style-type: none"> - 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 communication skills; able to follow detailed procedures accurately and reproducibly. |
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LANGUAGES

Spanish *Native speaker* Japanese *Good working knowledge*

CERTIFICATIONS

- ❖ **Japanese Language Proficiency Test - N5** Dec 2018
Achieved Japanese Language Proficiency Test (JLPT) N5 certification, demonstrating basic understanding of Japanese vocabulary, grammar, and conversational skills.