

# Sebastian Calleja

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## Education

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|-------|---|----------------|
| Ph.D. | Plant Science<br>University of Arizona, Tucson, AZ, USA<br>Advisor: Duke Pauli  | 2020 - present |
| B.A.  | Biology, specialization in Behavioral Biology<br>Boston University, Boston, USA | 2015 - 2019    |

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## Research Experience

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|---|-----------------------|
| <b>Research Specialist</b> , University of Arizona  | Summer 2019 – Present |
| <ul style="list-style-type: none"><li>Conducted field work on plant physiology using LI-COR 6400 XT gas-exchange machine and FluorPen FP 110 to measure photosynthetic efficiency</li><li>Gained skills in crop management including herbicide/pesticide management, and irrigation</li><li>Gathered field data, such as hand measurements and collected samples</li><li>Gained knowledge of complex farm equipment including GPS planters and other common implements</li><li>Conducted pressure bomb measurements to measure leaf water potential under extreme conditions</li><li>Obtained section 107c UAV pilot's license. Carry out acquisition of UAV-based imagery on experimental crops</li><li>Harvested sorghum and cotton, both by hand and machine</li></ul> |                       |

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|--|-------------------------|
| <b>Research Assistant</b> , Boston University  | Fall 2017 - Spring 2019 |
| Advisor: Dr. Graham Dow  |                         |
| <ul style="list-style-type: none"><li>Conducted field work on plant physiology using LI-COR 6800 gas-exchange machine and became familiar with brightfield microscopy</li><li>Travelled to orchards to collect physiological and hand measurements of apple varieties</li><li>Analyzed excel data and gained microscope slide preparation skills</li><li>Analyzed stomatal characteristics, such as pore length, width and area using Image J</li><li>Gained presentation skills</li><li>Received stipends from the University to conduct research</li></ul> |                         |

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## Skills

- Processing, collecting, and quality control of field data
- Use, maintenance, and understanding of field research equipment
- Exceptional organizational abilities and time management skills
- Computer skills (Microsoft, Excel, Word, Power Point, ArcGIS, Image J), basic understanding of R
- Bilingual knowledge: Fluent in English and Spanish

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## Other Experience

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| <b>Boston University lab assistant for Vertebrate Zoology lab</b>  | Spring 2019 |
| <ul style="list-style-type: none"><li>Prepared specimens to be dissected and observed</li><li>Aided in the creation of lab exams (both oral and paper)</li></ul> |             |

**Late Night Kitchen waiter and busser**

Fall 2016 – Spring 2018

- Gained customer service skills and time management skills