# Aaron Isaí Plex Sulá

Foreign address – 3era. Ave. 4-12 zona 2, Sumpango, Sac., Guatemala.
US address - SW 46th Terrace & SW 18th Place, Gainesville, FL 32607.
Phone (WhatsApp) – +(502) 59853514
Email – plexaaron@ufl.edu, plexaaron@gmail.com
Web page - https://observablehq.com/@aaronplex/overview

**Overview.** Interested in management of crop pests and diseases; insect communities of forensic importance; and risk factors for animal and human diseases.

## Education

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| **2016 – 2019** | **EAP Zamorano – Panamerican School of Agriculture (Escuela Agrícola Panamericana)**<br>**University of Zamorano**<br>Bachelor – Farm Sciences and Production<br>Top 4 best students |
| **2013 – 2015** | **ENCA National School of Agriculture (Escuela Nacional Central de Agricultura)**<br>Agronomist – Agriculture, Livestock, and Forest<br>Top 10 best students |

## Experience

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| **2020 – present** | **Research Assistant in Dr. Karen Garrett's lab**<br>https://www.garrettlab.com/<br>Network analysis in epidemic systems:<br>Cropland connectivity and international trade networks |
| **2019** | **Intern in Dr. Gary Vallad's lab**<br>https://gcrec.ifas.ufl.edu/gcrec-facultystaff-directory/gary-vallad/<br>Chemical and biological control of *Fusarium oxysporum* as a soil-borne disease on tomatoes: Greenhouse, laboratory, and field research |
| **2010 – present** | **Smallholder Farmer, Guatemala**<br>Vegetable production: Tomato, maize, green and dry beans, bell peppers, pea, tomatillo, *Cucurbita pepo*. |
| **2015** | **Manager assistant at AGROBELSA, HAME, Guatemala**<br>Banana production: Specialized in banana flower and fruit management and irrigation system |
| **2014-2015** | **Manager of a small company**<br>Production and trade of mushroom: *Pleurotus ostreatus* greenhouse production |

**2016-2019** **Learning by doing program in Zamorano**

## Awards and extracurricular

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| **2016 – 2019** | Academic Excellence Honor, EAP Zamorano |
| **2013 – 2015** | Discipline Excellence Honor, ENCA |
| **2016 – 2019** | Voluntary assistantship in bachelor classes |
| **2019 - present** | Analysis of animal disease profiles:<br>Independent research focusing on generating profiles for animal diseases with Dr Josue Molina<br>https://scholar.google.com/citations?user=8EUVus0AAAAJ&hl=en |

## Theses

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| **2019**<br>Unpublished | **Bachelor thesis – Decomposer insects associated with chicken and pig carrion in Zamorano**<br>12 dipteran species were new country records for Honduras |
| **2015**<br>Unpublished | **High school thesis – Guide to banana production in Tiquisate, Guatemala**<br>Banana planting, fertilization, irrigation, *in planta* flower and fruit covering, disease and pest management, harvest, postharvest and fruit packing |

## Journal article

Buddenhagen CE, Xing Y, Andrade Piedra JL, Forbes GA, Kromann P, Navarrete I, Thomas-Sharma S, Choudhury RA, Andersen Onofre KF, Schulte-Gelderman E, Etherton BA, **Plex Sulá AI,** Garrett KA. 2021. Management performance mapping and the value of information for regional prioritization of management interventions. Phytopathology. doi.org/10.1094/PHYTO-05-20-0202-R Accepted pending minor revision.

## Book chapter

Alcalá-Briseño RI, **Plex Sulá AI**, Etherton BA, Andersen Onofre KF, Poudel R, Xing Y, Garrett KA. 2021. Adapting crop disease management to global change. Chapter in Vegetable Disease Management. Invited, currently in revision.

## Oral keynote presentations

Garrett KA, **Plex Sulá A.** 2021. Global change: Adapting coffee pest and disease management. Global change: Adapting coffee pest and disease management. Plenary session – keynote lecture. 28th Conference ASIC (Association for Science and Information on Coffee) 2021.

## Posters

**Plex Sulá A**, Xing Y, Alcalá-Briseño RI, Etherton B, Andersen Onofre K, Andrade-Piedra J, Hodson D, Jarvis A, Kreuze JF, Sonder K, Suresh LM, Garrett KA. 2021. Análisis de riesgo de factores geográficos en las enfermedades de cultivos de mayor importancia en Centro América y México: estructuras globales y análisis regional. 5 Congreso Argentino de Fitopatología.

**Plex Sulá A**, Xing Y, Alcalá-Briseño RI, Etherton B, Andersen K, Andrade-Piedra J, Hodson D, Jarvis A, Kreuze JF, Sonder K, Suresh LM, Garrett KA. 2021. Geographic disease risk analysis for major crops of Central America and Mexico: regional analyses and global structures. Research on-demand poster. Plant Health 2021.

Xing Y, **Plex Sulá A**, Alcalá-Briseño RI, Etherton B, Choudhury R, Andersen Onofre K, Garrett KA. 2021. Cropland connectivity: best practices for incorporation in geographic risk analyses. Research on-demand poster. Plant Health 2021.

**Plex Sulá A**, Xing Y, Alcalá-Briseño RI, Etherton B, Andersen K, Andrade-Piedra J, Hodson D, Jarvis A, Kreuze JF, Sonder K, Suresh LM, Garrett KA. 2021. Geographic disease risk analysis for major crops of Central America and Mexico: regional analyses and global structures including cacao and tomato. Research On-Demand Poster. 17$^{th}$ Biennal Florida Phytopathology Society Meeting

Xing Y, **Plex Sulá A,** Alcalá-Briseño RI, Garrett KA. 2021. Incorporating cropland connectivity as a new standard feature of geographic risk assessment and surveillance strategies. Research On-Demand Poster. APS Southern Division Virtual Meeting.