

# Isaac Natanael Aguilar | Curriculum Vitae

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## Education

**UC BERKELEY | GPA: 3.7** **BERKELEY, CA**  
B.S. Molecular Environmental Biology | Biodiversity concentration **Dec. 2022**  
B.S. Ecosystem Management and Forestry | Natural Resource Management concentration  
Minor in Geospatial Information Science & Technology

**HONORS THESIS** **SIERRA DE MANANTLAN BIOSPHERE RESERVE, MEX**  
· Awarded honors degree for research on eDNA and camera trap survey in the Sierra de Manantlán, MEX  
· Trained by UC Santa Cruz Meyer lab for environmental DNA sampling, metabarcoding, and analysis  
· Monitored camera traps in collaboration with Juan-Pablo Esparza Carlos (University of Guadalajara)

## Experience

**DEPT. ECOLOGY AND EVO. BIO. | UC LOS ANGELES** **LOS ANGELES, CA**  
Project Coordinator and Lab Technician **Nov. 2023 – PRESENT**  
Advisor: Dr. Elsa Ordway

**DEPT. ECOLOGY, EVOLUTION, AND BEHAVIOR | UCSB** **WILSON COVE FIELD STATION, CA**  
Field Research Assistant; Argentine Ant Eradication Project **April – Oct. 2023**  
Advisor: Dr. David Holway

**ESSIG MUSEUM OF ENTOMOLOGY | UC BERKELEY** **BERKELEY, CA**  
Work-Study Imagery Assistant **Feb. 2019 – Dec. 2022**  
Advisor: Dr. Peter Oboyski

**INSTITUTE OF ARCTIC BIOLOGY | UA FAIRBANKS** **TOOLIK FIELD STATION, AK**  
Spatial and Environmental Data Center Technician **June – Aug. 2022**  
Advisor: Dr. Amanda Young

**INTEGRATIVE BIOLOGY FIELD COURSE | UC BERKELEY** **GUMP STATION, MOOREA**  
IB 175LF Biology & Geomorphology of Tropical Islands Student **Aug. – Dec. 2021**  
Advisors: Dr. Stephanie Carlson, Dr. George Roderick, Dr. Seth Finnegan, Dr. Brent Mishler

**DEPT. ECOLOGY AND EVO. BIO. | UC SANTA CRUZ** **AÑO NUEVO ISLAND RESERVE, CA**  
Doris Duke Conservation Scholar Summer Intern **May – Aug. 2021**  
Advisors: Dr. Patrick Robinson, Dr. Abe Borker, Dr. Erika Zavaleta

**DEPT. ENV. SCI. POLICY AND MGMT. | UC BERKELEY** **BERKELEY, CA**  
Undergraduate Research Assistant **Jan. 2020 – May 2021**  
Advisors: Dr. Stephanie Carlson, Dr. Albert Ruhi, Dr. Arthur Middleton

## Mentorship & Service

**PEER ADVISOR | UCB COLLEGE OF NATURAL RESOURCES** **AUG. 2020 – DEC. 2022**  
· Provided holistic support for over 2,000 students to navigate academic policies and campus resources  
· Engaged in peer advising training and development, CalDay and GBO programming, and other events

**UNDERGRADUATE LEARNING MENTOR | UCB BIO 1B COURSE** **FALL 2022**

- Provided instructional support for 30 students in evolution, ecology, and organismal biology lab course

**PRESIDENT | THE WILDLIFE SOCIETY AT BERKELEY** **AUG. 2020 – DEC. 2022**

- Started a student chapter of TWS to develop an inclusive community of wildlife enthusiasts
- Awarded a \$3,725 grant to increase accessibility to professional and academic development events

**STUDENT REP. | CHANCELLOR'S ADVISORY COMMITTEE** **JAN. 2020 – MAY 2022**

- Working group discussing solutions for diversity, equity, and inclusion in sustainability initiatives

**STUDENT REP. | RCNR STRATEGIC PLANNING WORK GROUP** **JAN. 2022 – MAY 2022**

- Develop undergraduate success initiatives in committee with peers, faculty, and college administrators

**STUDENT MENTOR | BRIDGING BERKELEY** **AUG. 2020 – MAY 2021**

- Zoom two local 6<sup>th</sup> grade mentees to provide academic support and virtual learning assistance

**WRITER | STUDENT ENVIRONMENTAL RESOURCE CENTER** **AUG. 2020 – MAY 2021**

- Proposed, researched, and wrote articles on ecology and conservation for the virtual news platform
- Engaged in bi-weekly meetings for writing and professional development training

**RESIDENTIAL ASSISTANT | UC BERKELEY RESLIFE** **AUG. 2019 – DEC. 2020**

- Provide holistic support for 60 first-year student residents to develop a supportive dorm environment
- Monitor security and safety for >1,000 students in the Unit 3 residential complex through nightly shifts

**TREASURER | CAL FORESTRY CLUB** **AUG. 2020 – DEC. 2020**

- Manage student organization and funds for professional and community development

**STUDENT ASSISTANT | ROSIE THE RIVETER NATL. HISTORIC PARK** **FEB. – MARCH 2020**

- Lead groups of 20-30 local 4<sup>th</sup> grade students and chaperones through guided tours and activities

**CAMP COUNSELOR | NATUREBRIDGE COASTAL CAMP** **MAY – AUG. 2019**

- Lead and supervise 10-20 campers through hikes, naturalist tours, and outdoor education activities
- Assist educators in lesson plan creation, outdoor risk management, and overnight trip planning.

## Science Communication

**ORAL SESSION | MANAOS, BRASIL** **NSF/NASA AMAZONIA CLIMATE WORKSHOP 2024**

- Strategies for Community Engagement and involvement in PANGEA Tropical Forest Scoping campaign

**ORAL SESSION (ES) | LIMA, PERU** **NASA TROPICAL FOREST SCOPING WORKSHOP 2024**

- Oportunidades de participación y formación en PANGEA; Enfoque de la participación comunitaria

**CONTRIBUTED ORAL SESSION | PORTLAND, OREGON** **ESA ANNUAL MEETING 2023**

- Monitoring Biodiversity with Environmental DNA and Camera Traps in the Sierra de Manantlán, México

**POSTER SESSION | SAN JUAN, PUERTO RICO** **SACNAS NDISTEM CONFERENCE 2022**

- Monitoring Biodiversity with Environmental DNA and Camera Traps in the Sierra de Manantlán, México

**THESIS PRESENTATION | UC BERKELEY** **RCNR HONORS SYMPOSIUM 2022**

- Monitoring Biodiversity with Environmental DNA and Camera Traps in the Sierra de Manantlán, México

**POSTER SESSION | UC BERKELEY                      LATINXS & THE ENVIRONMENT CONFERENCE 2022**

- Monitoring Biodiversity with Environmental DNA and Camera Traps in the Sierra de Manantlán, México

**ORAL PRESENTATION | TOOLIK FIELD STATION                      UNDERGRADUATE SYMPOSIUM 2022**

- Monitoring Biodiversity with Environmental DNA and Camera Traps in the Sierra de Manantlán, México

**WRITER & PHOTOGRAPHER | TOOLIK FIELD STATION                      NATURALIST JOURNAL 2022**

- Developed bilingual entries for the online naturalist journal with photos for a global public audience

**ORAL PRESENTATION | UC BERKELEY                      MOOREA CLASS SYMPOSIUM 2021**

- Distribution of Endemic and Introduced Birds in a Heterogeneous Tropical Pacific Island Forest

**ORAL PRESENTATION | UC SANTA CRUZ                      DORIS DUKE SYMPOSIUM 2021**

- Demographic characteristics of a California Sea Lion (*Z. californianus*) colony on Año Nuevo Island

**GROUP PRESENTATION | UC BERKELEY                      BIOLOGY 1B FIELD CLASS SYMPOSIUM 2019**

- Burnout: The impact of the *Mytilus californianus* die-off on the local intertidal community in Bodega Bay

## **Fellowships and Awards**

**FACULTY FELLOW | CALTECH DIV. OF GEOL. PLANET. SCI.                      JAN. 2022 – DEC. 2022**

- Awarded \$5000 for institutional initiatives to increase diversity, equity, and inclusion

**RESEARCH FELLOW | UCB LATINXS AND THE ENV. INITIATIVE                      JAN. 2022 – DEC. 2022**

- Awarded \$3000 for honors research on biodiversity the Sierra de Manantlan, Jalisco – Colima, México

**DORIS DUKE CONSERVATION SCHOLAR | UC SANTA CRUZ                      MAY 2020 – JAN. 2022**

- Leadership and professional development program including a summer field course and internship

**SPONSORED PROJECTS FOR UNDERGRADUATE RESEARCH | UC BERKELEY                      JAN. 2022**

- Awarded \$1888 for research equipment and costs related to honors thesis project in Jalisco, México

**TRAVEL GRANT | UC BERKELEY                      DEC. 2021**

- Awarded 3 \$600 grants (\$1800) for travel expenses related to honors thesis project in Jalisco, México

**THE LEADERSHIP AWARD | CAL ALUMNI ASSOCIATION                      OCT. 2021**

- Recognizes Cal student leaders for innovative, impactful, and initiative-driven contributions

**DINEEN DANIEL SCHOLARSHIP | UC BERKELEY                      OCT. 2021**

- Awarded by the major faculty advisor for academic achievement in Ecosystem Management & Forestry

**MINI GRANT | THE GREEN INITIATIVE FUND                      SPRING 2020**

- Awarded \$3725 to revive The Wildlife Society chapter at UC Berkeley and engage student body

**UC BERKELEY UNDERGRADUATE SCHOLARSHIP                      AUG. 2018**

- Awarded by UC historic scholarship program to recognize academic merits of undergraduates