

Johan Benedict Arroyo Cristobal

(818) 749-4330

jcristobal2@husker.unl.edu

EDUCATION **Masters of Science in Mathematics**

Expected May 2022 University of Nebraska-Lincoln, Lincoln, NE

Bachelor of Science in Mathematics of Computation

June 2020 University of California Los Angeles, Los Angeles, CA

RESEARCH INTEREST

- Dynamical systems and solutions to partial differential equations
interest found through Navier-Stokes equations
- Application of artificial intelligence, machine learning, and computer graphics in environmental simulations and modeling
interest found due to taking courses in AI/ML and pursuing game design pre-college

RESEARCH EXPERIENCE

Independent Contractor (Assistant) for the Easter Island Statue Project

October 2017 - September 2019

Easter Island Statue Preservation

- Advisor: Dr. Jo Anne Van Tilburg.
- Research assistant for research of the Easter Island and its various archaeological and geographical aspects.
- Under guidance, wrote a research article arguing about the sustainability of a long held archaeological categorization (set for publication within Dr. Van Tilburg's next publication).
- Transcribed and normalized data from previous researchers for ease-of-access and usability in data management and analysis.
- Quickly synthesized tutorials and instructions in ArcGIS to perform tasks within the geographical information systems realm.

Collaborative Research Project for Downtown Women's Action Coalition

October 2019 - December 2019

Service Learning component of Chicano/Chicana Studies 10B

- Participated in researching the "culturally sensitive services" pertaining to the unhoused/homeless women at Skid Row, Los Angeles, California.
- Produced a research report for the Downtown Women's Action Coalition and found a deficit in the number of research and studies done on gender-specific issues related to the question

**WORK
EXPERIENCE**

Peer Learning Facilitator for Academic Advancement Program
September 2019 - June 2020
UCLA AAP Peer Learning Unit

- As a Peer Learning Facilitator, ran multiple study sessions per week to further solidify knowledge in a specific course.
- Implemented Critical Race Theory into the pedagogy to highlight and combat societal power dynamics in a way that allows students to thrive as both scholars and holistically.

Communications and Media Director for Office of Ext. Vice President
June 2019 - June 2020
UCLA Undergraduate Student Association Council

- As Communications and Media Director, handled the creation and distribution of content for the Office and improved the interface between the Office and the student body at UCLA
- In attendance and helped for conferences tackling grass-root organizing:
+ 2019 Students of Color Conference at UCLA, CA (Nov 2019)

Digital Archivist (Work-study) for Rock Art Archive
October 2017 - September 2019
UCLA Cotsen Institute of Archaeology

- As a Digital Archivist, scanned documents in the Rock Art Archive for data management and file upkeep
- Examined written data and photographic evidence for accuracy and hypothesis-testing while aiding in the creation of an electronic record

**PROFESSIONAL
AFFILIATIONS**

Pacific Math Alliance Undergraduate Member/Mentee
June 2019 - Present

- Participated in the Facilitated Graduate Applications Process, under the guidance of Professor William Ott.
- In attendance for conferences tackling diversity in STEM:
+ 2019 PMA Conference at CSU East Bay, CA (Oct 2019)
+ 2019 Field of Dreams Conference at St. Louis, MO (Nov 2019)

SKILLS

- Programming: C, C++, Python, bash, Matlab, LISP, SQL and HTML/CSS
- Archaeological Studies: ArcGIS, text processing, georeferencing
- Language(s): English, Filipino/Tagalog, Spanish
- Content Creation:
+ Lifestyle: <https://www.youtube.com/u/johanmode> (active)
+ Videogame: <https://www.youtube.com/u/DeeGamer21> (non-active)
- Web Design: <https://johanmcs.github.io/johanc>