Last Update: May 25, 2021

Alex Garcia

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LinkedIn

(708)382-1211

Website

Education —

University of Florida

Aug 2021 - May 2023

Master's of Science in Astronomy, Advisor: Paul Torrey

University of Illinois

Aug 2017 – May 2021

Bachelor's of Science in Engineering Physics Bachelor's of Science in Astronomy - distinction

Teaching Experience -

Course Instructor

Summer 2021

qBraid - QuBes Course

Urbana, IL (Remote)

Syllabus

- Host lectures weekly on Quantum Computing intended for high school-aged students interested in pursuing STEM education over the summer.
- Answer a variety of technical and non-technical questions regarding the course during a weekly office hour.

Tutor Aug 2018 - May 2021

Center for Academic Resources in Engineering (CARE) – UIUC

Urbana, IL

- Guided students towards success in various homework assignments in a number of different disciplines. Subjects included introductory mechanics, electricity & magnetism, quantum mechanics, thermodynamics, calculus, intro to python, differential equations, and linear algebra.
- Planed and led small group presentations for specific courses and present to students in order to help them succeed on exams.
- Analyzed the data on traffic of incoming students with python and created LaTeX reports of monthly attendance, broken up into several different categories.
- Created and maintained LaTeX worksheets for peer-led exam review sessions in several math and physics courses.

Visual Instructor Aug 2018 - Aug 2021 Frankfort, IL

Lincoln-Way Marching Band (LWMB)

- Assisted on the field teaching students how to perfect and perform an eight-minute field show. Included teaching management of simultaneous demand and awareness.
- Worked within a group of staff members on lesson plans and communicated on how to most effectively budget and allocate time to improving the overall product.

Research Experience -

Graduate Research Assistant

University of Florida - Advisor: Paul Torrey

May 2021 – Present Gainesville, FL

Undergraduate Research Assistant

Feb 2021 - May 2021 Urbana, IL

University of Illinois - Advisor: Yue Shen

Undergraduate Research Assistant University of Illinois - Advisor: Bryan Dunne

Aug 2020 - May 2021 Urbana, IL

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Work Experience

Registration Assistant

Summer 2020, Summer 2021 Urbana, IL (*Remote*)

Grainger College of Engineering

- Guide incoming undergraduate students on how to utilize registration interface as well as navigating course registration mandates.
- Interface with a team digitally and work together to standardize an approach to helping students with their issues registering.

Grader

Aug 2020 – May 2021

University of Illinois Astronomy Department

Urbana, IL

- Courses: Astr 100 Introduction to Astronomy (FA2020), Astr 150 Killer Skies: Astro-Disasters (FA2020), Astr 330 Extraterrestrial Life (W2021, SP2021)
- Read over student's submissions of astrophysical information and determined where to assign and detract points based on a rubric and my own understanding of astrophysics.
- Communicated with the professor on due dates and finish work promptly, accurately and with comments for students on how to improve their submission.

Lecture Viewing Assistant

 $Jan\ 2021-Mar\ 2021$

Urbana, IL

Grainger College of Engineering

- Hosted sessions for students to come to campus and watch their live zoom lectures as a group.
- Created events on the college's website as well as analyzed and interpreted data on attendance of these sessions.

Technical Skills -

Fluent: Python, LATEX (including Tikz), Microsoft Office Literate: R, HTML, CSS, Origin Pro, Java/JavaScript

Honors and Awards -

University of Illinois Tutor of the Year Finalist University of Illinois Tutor of the Year Honorable Mention Dean's List, College of Liberal Arts and Sciences – UIUC Dean's List, Grainger College of Engineering – UIUC Eagle Scout, Boy Scouts of America Spring 2021 Spring 2021 Fall 2020 Spring 2018, 2019 April 2015

Activities -

Fighting Illini Basketball Pep band Bluecoats Drum and Bugle Corps Madison Scouts Drum and Bugle Corps November 2019 - March 2020 November 2018 - August 2020 November 2016 - August 2018