

Gilberto Garcia

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EDUCATION

- **Wesleyan University** Middletown, CT
Bachelors of Arts
B.A. Astronomy & B.A Physics, GPA: 3.27/4.00
Expected May 2020
- **Muchin College Preparatory** Chicago, IL
Honors Diploma
GPA: 3.98/4.00
July 2016

EXPERIENCE

- **Research Assistant** Middletown, CT
Wesleyan University Department of Astronomy *May 2018 - Present*
 - Work with Dr. Edward C. Moran, PhD on constructing a catalog of long-term, variable X-ray sources to understand the nature of accretion rates for supermassive black holes at the center of galaxies.
 - Created a pipeline to query data from the Chandra X-ray Observatory and apply matching algorithms to find a sources counterpart in other X-ray catalogs. The pipeline applies statistical methods to create light curves using data spanning 4 decades.
 - Presented a poster of our work at *Wesleyan's Summer Research Symposium* (June 2018, June 2019), *National McNair Conference* at UCLA (July 2019), *Keck Northeast Astronomy Consortium (KNAC)* at Vassar (October 2019), and *American Astronomical Society's 235th Meeting* in Honolulu, HI (January 2020). Gave a talk at *KNAC* at Middlebury (October 2018).
- **Coordinator** Middletown, CT
Cross Street Tutoring *Sept. 2016 - Present*
 - Connect low-income students (K-12) from various Middletown public schools with educational resources, including school supplies and tutors, through a daily after school program.
 - Recruit and train groups of Wesleyan tutors on pedagogical methods to more effectively assist Middletown students with classwork and homework while also creating a safe and comfortable work environment.
 - Plan weekly events geared towards igniting the Middletown students' interest in STEM and higher education by bringing in speakers and/or creating science lesson plans.
- **Math Tutor** Middletown, CT
Wesleyan University Department of Mathematics *Sept. 2018 - Present*
 - Host open office hours for Wesleyan students in undergraduate mathematics courses to help with their coursework and homework.
 - Develop personal teaching skills through individual and group tutoring sessions.
- **Winter Intern** Chicago, IL
Civis Analytics *Dec. 2018 - Jan. 2019*
 - Create and summarize reports on media consumption by different demographics using data from Nielsen reports.

LEADERSHIP

- **Teacher Apprentice** Middletown, CT
Wesleyan University Department of Astronomy *Sept. 2019 - Present*
 - Enhance pedagogical methods by serving as an additional resource for 40 students in Dr. Seth Redfield's ,PhD, introductory Astronomy course (ASTR105) by holding weekly homework help sessions, telescope operating for mandatory class observing nights, and individual tutoring upon request as well as teach class when the professor is unavailable.
 - Practice student assessment skills by creating homework rubrics while also grading student homeworks and exams.

- **Co-Founder** Middletown, CT
Wesleyan Astronomy Club *Sept. 2018 - Present*
 - Created as a space to for Wesleyan students to get involved with the astronomy department at an enthusiast's level.
 - Host and lead biweekly meetings on current and classic topics pertaining to astronomy geared towards people with minimal astronomy and physics knowledge while occasionally opening Wesleyan's telescopes to allow students to observe.
- **Public Outreach Volunteer** Middletown, CT
Wesleyan University Department of Astronomy *Jan. 2018 - Present*
 - Engage with the Wesleyan student body and Middletown community by hosting presentations and observing sessions as part of Kids' Night and Space Night, public outreach programs at Wesleyan's Van Vleck Observatory. Kids' Night involves a short demonstration followed by activities and observing for younger children while Space Night involves a presentation delivered at a high-school/college level followed by an observing session.
- **Orientation Intern** Middletown, CT
Wesleyan University Office of Admissions *Aug. 2018 - Sept. 2018, Aug. 2019 - Sept. 2019*
 - Welcomed and planned events for Wesleyan's incoming class focusing on transitioning into college while creating an inclusive space for all.
 - Directed a series of discussions for international, first-generation, and/or low-income students on navigating predominantly white institutions by sharing personal struggles and experiences.

AWARDS, HONORS, AND AFFILIATIONS

- *Fellow, CIS Summer Research*, Wesleyan University Summer 2018, Summer 2019
- *Fellow, McNair Post-Bacalaureate Program*, Wesleyan University 2019-Present
- *Recipient, Questbridge National College Match Program* 2016-Present
- *Fellow, Chicago Scholars Program* 2016-Present

PROGRAMMING SKILLS

- **Languages:** Python, C, HTML, CSS **Technologies:** IRAF, SQL, Mathematica, MATLAB, Excel/VBA, \LaTeX