

CAMILA ANGULO VALDEZ

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EDUCATION

Universidad Autónoma de Sinaloa (UAS)

Facultad de Ciencias de la Tierra y el Espacio

Bachelor of Astronomy

Cummulative GPA: 9.09/10

August 2016 - February 2021

Culiacán, Sinaloa

STRENGTHS & SKILLS

Languages	Spanish (Native), English (High, Cambridge FCE: C1)
Operating Systems	Mac OS, Linux, Windows
Programming	Proficient: Python Familiar: MATLAB, FORTRAN, IRAF, R
Software	VS Code, SAO DS9, L ^A T _E X, Google Suite, Microsoft Office, Notion, AutoCAD
Other skills	Graphic Design (Adobe Creative Cloud Express), Community manager (Social Media)

RESEARCH EXPERIENCE

Intern, as part of UAS's Professional Practices

Instituto de Astronomía, UNAM

March 2021 - June 2021

Ensenada, Baja California

- *Supervisor:* Dr. Emma Margarita Pereyra
- Optimization of the follow-up log for *Fermi*-GBM and the observation notices sent through the Gamma-ray Coordinates Network. Analysis and characterization of the DDOTI follow-up of GRBs detected by *Fermi*-GBM. Global statistics, in graphs and numeral, for the *Fermi*-GBM GRB optical follow-up performed by the DDOTI instrument from 2019 to 2021.

Mexican Academy of Sciences (AMC), Virtual Summer Research Fellow

Instituto de Astronomía, UNAM

June 2020 - August 2020

Coyoacán, Mexico City

- *Advisors:* Dr. Jorge K. Barrera Ballesteros
- Obtained data in multiple wavelengths of the CALIFA sample galaxies. Data calibration for the development of spectral energy distributions for each galaxy.

Brigadist, as part of UAS's Social Service

Instituto de Astronomía, UNAM

September 2019 - February 2020

Coyoacán, Mexico City

- *Supervisors:* Prof. Christopher Añorve Solano
- Galaxy classification according to morphology type through machine learning to obtain the morphology fraction in function of the local density for a galaxy cluster.

Scientific and Technological Summer Research of the Pacific, Research Fellow

Instituto de Astronomía, UNAM

June 2019 - August 2019

Coyoacán, Mexico City

- Advisors: Dr. Jorge K. Barrera Ballesteros
- Obtained data from the GALEX UV telescope for the sample of galaxies observed by the optical instrument MUSE through Python scripts, to complement optical observations.

Scientific and Technological Summer Research of the Pacific, Research Fellow June 2018 - August 2018
Departamento de Astronomía, UG *Guanajuato City, Guanajuato*

- Advisors: Dr. Carlos A. Rodríguez Rico
- Developed algorithms in R for the basic processing of astronomical images.

Telescope observer (5 nights)

Guillermo Haro's Astrophysical Observatory, INAOE

Dec 2018
Cananea, Sonora

- As an assistant of Dr. Héctor Javier Ibarra Medel & M.S. Giannina Dalle Mese Zavala, acquiring photometric observation of nearby galaxies with a 2.12m telescope.

TEACHING & MENTORING EXPERIENCE

Astronomy Student Advisor

2018 - 2020

Peer-mentor and instructor for the following Astronomy major courses and labs: Fundamentals of Astronomy, Programming I & II (Labs), Introduction to Astrophysics, Computational Astrophysics I (Lab).

HONORS, AWARDS, GRANTS & FELLOWSHIPS

Third highest GPA of the generation.

Award

Awarded the 3rd highest GPA of the Bachelor in Astronomy 2016-2021's generation.

Assistant to a SNI III Researcher

Grant

Scholarship from CONACYT, aimed to work on a research project for the analysis and report of the observational data from the robotic telescopes RATIR, COATLI, and DDOTI

CONFERENCES & WORKSHOPS

LXIV National Physics Congress

Congress (virtual)

Hosted by Sociedad Mexicana de Física (SMF), October 04-08 2021. Presented the talk: "Optical observations of Gamma-ray Bursts detected by the instrument *Fermi*-GBM".

Code/Astro 2022

Workshop (virtual)

Supported by Heising-Simons Foundation, instructed by researchers from Caltech and IPAC. Software Engineering Workshop for Astronomy.

SERVICE & LEADERSHIP

- Student Society General Secretary of the Facultad de Ciencias de la Tierra y el Espacio Dec 2018 - Dec 2020
- Technical Council Member of the Facultad de Ciencias de la Tierra y el Espacio Dec 2019 - Dec 2020
- Jóvenes con Ciencia (JC) organizer (weekly colloquiums and activities) 2018-2019

SELECTED OUTREACH

Virtual seminar: *UV multi-wavelength study of the physical properties of the CALIFA galaxies* Presenting results of summer research internship on Jornada Sinaloense del Conocimiento 2020 at Facultad de Ciencias de la Tierra y el Espacio. November, 2020.

Organizer: *Jornada Sinaloense del Conocimiento 2020 (JSC 2020).* Organizer of JSC 2020 activities at Facultad de Ciencias de la Tierra y el Espacio. October-November, 2020.