



NATALIA LUCÍA OLIVEROS GÓMEZ

PHD STUDENT IN ASTROPHYSICS

Johns Hopkins University - USA

MASTER IN ASTROPHYSICS

Universidad de Guanajuato - México

PHYSICIST

Universidad Industrial de Santander - Colombia



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Outreach: @arrecifecosmico



<https://onatalialucia.wixsite.com/astronomia>



astrophysics
data system

Oliveros-Gomez, N

I research in atmospheres of brown dwarfs. But, my passion is to transmit knowledge in education and outreach.



EDUCATION

2023 - TODAY **Johns Hopkins University (JHU) - Astrophysics PhD**
Thesis: Study of physical mechanisms of brown dwarf atmospheres and their variability (3rd year)
Advisors: Elena Manjavacas, David Sing

2023 - TODAY

Johns Hopkins University (JHU)

Master of Arts (Physics) - class grades: 8.00/10.0

2022 - 2023 **Universidad de Guanajuato (UG)**
Master in Science (Astrophysics) - class grades: 9.75/10.0
Thesis: Identification of candidate variable brown dwarfs (**With highest honors**)
Advisors: Elena Manjavacas, Dennis Jack

2016-2021

Universidad Industrial de Santander (UIS)

Physicist (Grade point average: 4.10/5.0)

Thesis: Study of a chromospheric eclipse of Zeta Aurigae, Fall 2019 (**Grade: 5.0/5.0**)

Advisors: Klaus-Peter Schröder, Luis A. Núñez.



OUTREACH PROJECTS



Letters to a
PRE-SCIENTIST

**2023-
TODAY**

Letters to a pre-scientist

Letter exchange with secondary school students to inspire them on the path of science.

**2023-
TODAY**

Support in the translation of texts for the public of the STScI dissemination office

As a native Spanish speaker, I verify scientific terms in the translation of outreach science texts from English into Spanish.



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE



**2023-
TODAY**

BARCO: Bringing Astronomy to Rural Communities of Colombia (Coordinator)

Project financed by IAU: Promote science education in Colombian rural schools by providing activities with resources available to them despite the absence of internet connectivity. We want to reach 100 schools in rural areas.

**2021-
2023**

Astronomy goes to your school (Organizer team)

A project where we take Colombian astronomers to Colombian schools in a virtual way. To give talks on any topic of astronomy.



**2021-
TODAY**

Web and social media manager of RECA

RECA is the Network of Colombian Astronomy Students (the acronym Spanish). I am in charge of maintaining the website and creating and publishing all the advertising pieces for the different projects that the network has (Internship, Education, census...)

2021

Chicas STEAM (Instructor)

Project Maloka - MinCiencias Colombia. where I was an instructor teaching STEAM topics to girls between 12-15 years old from different regions of Colombia, trying to involve STEAM and Heritage.



**2020-
TODAY**

Personal account to outreach: @arrecifecosmico

I manage this account to share astronomy knowledge simply to all kinds of public. I make videos, and infographics and share my day-to-day life in the academy.

This account is normally in Spanish because the majority of my public is in LATAM. But, I am trying to translate my infographics to English and Upload in my blog page.

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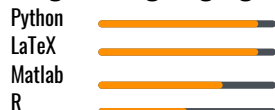
astrophysics
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COMPUTER SKILLS

Programming languages



Design software



LANGUAGES

Spanish: Native

English: B1



ACADEMIC OUTREACH EXPERIENCE

Prizes, Grants

2023 IAU/OAD Grant to do BARCo project in 2024 with RECA Educación - \$7000 EUR

2025 Public Engagement Prize - Europlatet - Recognition of RECA Educación's trajectory. To do the project Salomé in 2026. - \$1000 EUR

Training, Internships, Summer and Winter Schools

2020 International Summer Course: Astronomy Education Adventure in the Canary Islands, ONLINE Islas Canarias, España (Duration: 1 week)

2019 VII Jornadas Interamericanas de Astronomía en la Cultura - Sky, Astronomy and Cultural Heritage, La Serena, Chile, (Duration: 1 week)

Talks, Posters and Meetings

2023 Poster, Montevideo, Uruguay
Latin American Regional IAU Meeting (LARIM 2023): RECA - Promoting career development opportunities in astronomy to students of Colombian institutions

2019 Talk, La Serena, Chile
VII Jornadas Interamericanas de Astronomía en la Cultura: Measurable Universe II: Learning positional astronomy through classical astronomical instruments

2018 Talk, Medellín, Colombia
XVIII Encuentro Nacional de Astronomía RAC. COCUMA: Correlation between astronomical beliefs and record of climatic behaviors for crop management in Malaga, Santander

2017 Poster, Pereira, Colombia
Congreso Colombiano de Astronomía y Astrofísica (COCOAA): Beliefs of the Santanderean community based on astronomical phenomena and astrology



ONGOING PROJECTS

One Network by Colombian students of astronomy to develop and improve the Colombian professional astronomical community



RECA Collaboration



In preparation

The Colombian Astronomy Student Network (RECA) is an association that seeks to help the community of astronomy students to develop astronomy in Colombia and overcome barriers in academia and research. The main current projects of the network are: (1) The RECA mentoring program (2) The summer internship (3) The education program. All these programs are currently available in their second versions and have acquired benefits for many students of all academic levels, on the other hand, there are other programs that are in the process of being formalized.