HERNÁN E. NORIEGA

Av. Universidad 1900 \$\phi\$ CDMX, México

(+52) 56 1755 8197 \diamond henoriega@estudiantes.fisica.unam.mx

PERSONAL INFORMATION

Last name Noriega

First names Hernán Enrique

Date of birth February 05, 1997

Place of birth Barranquilla, Colombia

Nationality Colombian

EDUCATION

Universidad Nacional Autónoma de México (UNAM)

2022 - Present CDMX. México

Posgrado en Ciencias Físicas, Instituto de Física Academic degree: PhD in Science (Physics)

Grants: CONACYT Scholarship

Universidad Nacional Autónoma de México

2020 - 2021 CDMX, México

Posgrado en Ciencias Físicas, Instituto de Física

Academic degree: Master in Science (Physics)
Grants: CONACYT Scholarship, PAEP

Distinctions: Graduated with honors; Score 100%

Universidad del Atlántico (UA)

2014 - 2019

Facultad de Ciencias Básicas, Departamento de Física

Barranquilla, Colombia

Academic degree: BA in Physics

Grants: UA Scholarship

Distinctions: Graduated with honors; Score 90 %

LANGUAGES

Spanish Mother tongue

English Fluent spoken and written

LONG-TERM ACADEMIC VISITS

Instituto Nacional de Investigaciones Nucleares (ININ)

2022 - Present

Visiting Graduate Student with Dr. Alejandro Aviles

CDMX, México

PUBLICATION LIST

Profile: arXiv, INSPIRE

- 1. **Hernán E. Noriega**, Alejandro Aviles, Sebastien Fromenteau, Mariana Vargas-Magaña, "Fast computation of non-linear power spectrum in cosmologies with massive neutrinos", submitted to JCAP, 2022 (arXiv).
- 2. DESI Collaboration B. Abareshi (incl. **Hernán E. Noriega**), "Overview of the Instrumentation for the Dark Energy Spectroscopic Instrument", submitted to ApJ, 2022 (arXiv).
- 3. A. Oliveros, **Hernán E. Noriega**, "Constant-roll inflation driven by a scalar field with nonminimal derivative coupling", Int. J. Mod. Phys. D 28 (2019) 12, 1950159 (arXiv).

MENTIONS

1. Alejandro Aviles, Arka Banerjee, Gustavo Niz, Zachary Slepian, "Clustering in massive neutrino cosmologies via Eulerian Perturbation Theory", JCAP 11 (2021) 028, (arXiv)

SELECTED TALKS

- DESI Collaboration Meeting, Breakout 7a: Update on GQC projects Bayview, Berkeley, California, USA, June 2022.
- Short course: FFTLog formalism in cosmological perturbation theories, Instituto Avanzado de Cosmología (IAC), Ciudad de México, México, August 2021.
- Celebration for the day of light, SCOP (OSA & SPIE), Barranquilla, Colombia, May 2021.
- VIII Regional Physics Meeting, SUE Caribe & Sociedad Colombiana de Física, Barranquilla, Colombia, Nov. 2018.
- II Workshop on Current Challenges in Cosmology, UAN, Univalle, UNAL y COLCIENCIAS, Bogotá, Colombia, Nov. 2018.
- XV Departmental Meeting of Research, RedCOLSI, Barranquilla, Colombia, May de 2018.

ACADEMIC EXPERIENCE

Vera C. Rubin Observatory (LSST)

2022 - Present

LSST member

Dark Energy Spectroscopic Instrument (DESI)

2021 - Present

DESI member

Institución Educativa Distrital Ciudadela Estudiantil

2019 - 2020

2016 - 2018

High School teacher in Physics and Mathematics

Barranquilla, Colombia

Universidad del Atlántico Administrative staff: Physics labs 2019 - 2020 Barranguilla, Colombia

11ammonto active et ajj. 1 mgetee tate

Universidad del Atlántico

Assistant teacher

Barranquilla, Colombia

TECHNICAL STRENGTHS

Computing Languages

Python, MATHEMATICA, MATLAB, C++

IATEX, LaTeXDraw, GetDist and others

Codes

CAMB, CLASS, ZEUS-MCMC, emcee and others

Codes Developed FOLPS ν

Supercomputer Miztli, Atocatl, Nersc

REFERENCES

Dra. Mariana Vargas Magaña

UNAM, Instituto de Física

mmaganav@fisica.unam.mx

Dr. Alejandro Aviles Cervantes

CONACYT & ININ

alejandro.aviles.conacyt@inin.gob.mx

Dr. Sebastien Fromenteau

UNAM, Instituto de Ciencias Físicas

sfroment@icf.unam.mx