

HERNÁN E. NORIEGA

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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
Posgrado en Ciencias Físicas, Instituto de Física	CDMX, México
Academic degree: PhD in Science (Physics)	
Grants: CONACYT Scholarship	

Universidad Nacional Autónoma de México	2020 - 2021
Posgrado en Ciencias Físicas, Instituto de Física	CDMX, México
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) <i>LSST member</i>	<i>2022 - Present</i>
Dark Energy Spectroscopic Instrument (DESI) <i>DESI member</i>	<i>2021 - Present</i>
Institución Educativa Distrital Ciudadela Estudiantil <i>High School teacher in Physics and Mathematics</i>	<i>2019 - 2020</i> <i>Barranquilla, Colombia</i>
Universidad del Atlántico <i>Administrative staff: Physics labs</i>	<i>2019 - 2020</i> <i>Barranquilla, Colombia</i>
Universidad del Atlántico <i>Assistant teacher</i>	<i>2016 - 2018</i> <i>Barranquilla, Colombia</i>

TECHNICAL STRENGTHS

Computing Languages	Python, MATHEMATICA, MATLAB, C++
Software	L ^A T _E X, 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

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Dr. Alejandro Aviles Cervantes

CONACYT & ININ

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Dr. Sebastien Fromenteau

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