

Present Position	FPI PhD fellow in Theoretical Physics Instituto de Física Corpuscular (IFIC) & Department of Theoretical Physics University of Valencia Parque Científico, C/Catedrático José Beltrán, 2. Paterna, 46980; Spain. (+34)693012381 — vanhramirez@gmail.com https://www.linkedin.com/in/harr/ & https://hectoramirez.github.io
Nationality	Mexican — Current residence: Spain
Brief summary	I have published 8 refereed scientific articles on data analyses and mathematical modeling regarding the early-universe cosmology. All these publications were the result of individual specific projects, some of which were led by myself and in collaboration with people from the US, Japan, Italy, Germany and Spain. Furthermore, I have been a visiting researcher in important institutes in Italy, Chicago, Tokyo and the UK, where I collaborated with local people, gave talks and seminars (18 so far), led weekly meetings and contributed to outreach activities. Additionally, I have taught university-level courses during the last four years and served as a referee for scientific journals.

Education

PhD in Physics 2015-2019	University of Valencia , Spain. Dissertation: <i>‘Noncanonical Approaches to Inflation’</i>
MA in Advanced Physics 2013-2014	University of Valencia , Spain. Dissertation: <i>‘The Hu-Sawicki Model of Modified Gravity’</i>
BA in Physics 2018-2013	University of Veracruz , Mexico. Dissertation: <i>‘Quantum Chaos in the Dicke Model’</i>
2012	Academic exchange semester, University of Valencia , Spain.

Professional Experience

Long Research Stays

Apr - Jun, 2018	Institute of Cosmology and Gravitation, University of Portsmouth
Jan - Mar, 2018	Kavli IPMU, The University of Tokyo
May - Aug, 2017	Fermi National Accelerator Laboratory (Fermilab) and Kavli Institute for Cosmological Physics – The University of Chicago
Apr - Jun, 2015	Abdus Salam International Center for Theoretical Physics (ICTP) Trieste, Italy.
Mar - May, 2014	NEXT Experiment, Instituto de Física Corpuscular (IFIC) Valencia, Spain.

Teaching

I have taught undergraduate courses managed by the Department of Theoretical Physics at the University of Valencia during the last four academic years—about 45 hours in the classroom (groups of around 15 students) + class preparation, per academic year.

Classical Mechanics	Teaching Assistant (2017-2019): Resolution of problems, examinations, evaluation of teaching contents and elaboration of teaching material.
Introductory Physics	Teaching Assistant (2015-2018): Resolution of problems, occasional lectures, examinations and grading.

Journal referee

I have refereed scientific articles for the journals **Physical Review Letters** and **Physical Review D**, both from the American Physical Society (USA).

Awards and Fellowships

2015 - 2019	FPI Research fellow by the <i>Ministry of Economy, Industry and Competitiveness</i> (MINECO), Spanish Government.
Jul - Sep, 2014	Research scholarship granted by the University of Valencia
Jan - Jul, 2011	Grant for an abroad academic exchange semester by the University of Veracruz Carried out at the Faculty of Physics, <i>University of Valencia</i> .
2009 - 2011	Faculty award due to academic excellence (x2) <i>University of Veracruz</i>

Publications

A total of **8** research articles published either in **Physical Review D** (Astronomy & Astrophysics – Scie.; Physics, Particles & Fields — Scie.) [Impact factor: 4.568] (x5); **Journal of Cosmology and Astroparticle Physics** (Astronomy & Astrophysics – Scie.; Physics, Particles & Fields – Scie.) [Impact factor: 4.734] (x2); **Physics of the Dark Universe** (Astronomy & Astrophysics – Scie.) [Impact factor: 5.425] (x1).

My total list of publications can be found in my Inspire page:

<http://inspirehep.net/author/profile/H.Ramirez.1>

Talks

Conference talks	5 conference talks in Valencia, Paris, Teruel (Spain), Kyoto (Japan) and Portsmouth (UK).
Seminar talks	13 seminar talks in Valencia (x2), Paris (x2), Tokyo, London, Portsmouth (UK), New York, Chicago, UC Berkeley (USA), Schladming (Austria) and Veracruz (Mexico).

Details about my talks can be found in <https://hectoramirez.github.io/Files/CV/Talks.pdf>.

Skills

Computer knowledge	Python: Numpy, Scipy, Pandas, Matplotlib, GetDist, etc. Mathematical software: Wolfram Mathematica . Office suits: L^AT_EX , Microsoft Office, Apple iWork. Basic knowledge of HTML and CSS .
Languages	Spanish: Native; English: Fluent; French: B2 level. I have also taken German and Italian courses.
Sports	Highly active in organizing, managing and participating in sport teams, mainly on football soccer —I have joined and organized football teams in every place I have done a research stay.

References

Dr. Olga Mena Requejo
Instituto de Física Corpuscular (IFIC)
University of Valencia
(+34) 963543534 — omena@ific.uv.es

Prof. Shinji Tsujikawa
Department of Physics
Tokyo University of Science
shinji@rs.kagu.tus.ac.jp

Prof. David Wands
Institute of Cosmology and Gravitation
University of Portsmouth
+44 (0)23 9284 5151 — david.wands@port.ac.uk

Prof. Wayne Hu
Kavli Institute for Cosmological Physics
The University of Chicago
whu@background.uchicago.edu

Teaching References:

Prof. Santiago Noguera
Instituto de Física Corpuscular (IFIC)
University of Valencia
(+34) 963544189 — Santiago.Noguera@uv.es

Prof. José Peñarrocha
Department of Theoretical Physics
University of Valencia
(+34) 963544513 — Jose.A.Penarrocha@uv.es