

Curriculum Vitae

Personal Information:

Name: Joaquín Patricio Prieto Brito.

Nationality: Chilean.

Date of birth: October 13, 1981.

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Education:

PhD. In Astrophysics, Pontificia Universidad Católica de Chile (2010).

Graduate in Astronomy, Pontificia Universidad Católica de Chile (2004).

Research Positions:

Post doctoral researcher at the Departamento de Astronomía, Universidad de Chile (2014-Now).

Independent researcher at the National Academy of Science, Sofia, Bulgaria (2013-2014).

Post doctoral researcher at ICC, Universitat de Barcelona (2011-2013).

Research Interest:

Numerical simulations of cosmological and hydrodynamical systems (RAMSES code).

Teaching experience:

Assistant of a number of courses of the Faculty of Physics and Faculty of Engineering at Pontificia Universidad Católica de Chile between 2001 and 2005:

Thermodynamic, Mechanics, Electromagnetism, Special relativity and Stellar physics.

Languages:

Spanish, native.

English, excellent.

First author publications:

1) "Multiscale mass transport in $z \sim 6$ galactic discs: fueling black holes".

<http://arxiv.org/abs/1512.02446>

2) "The origin of spin in galaxies: clues from simulations of atomic cooling haloes".

<http://adsabs.harvard.edu/abs/2015MNRAS.452..784P>

3) "Overcooled haloes at $z \geq 10$: a route to form low-mass first stars".

<http://adsabs.harvard.edu/abs/2014MNRAS.437.2320P>

4) "Gas infall into atomic cooling haloes: on the formation of protogalactic discs and supermassive black holes at $z > 10$ ".

<http://adsabs.harvard.edu/abs/2013MNRAS.436.2301P>

5) "Dark matter merging induced turbulence as an efficient engine for gas cooling".

<http://adsabs.harvard.edu/abs/2012MNRAS.419.3092P>

6) "Population III Stars from Turbulent Fragmentation at Redshift ~ 11 ".

<http://adsabs.harvard.edu/abs/2011ApJ...731L..38P>