

## Dr. Itziar Aretxaga

Researcher/Investigadora Titular C

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### PERSONAL INFORMATION

Citizenship: Mexican/Spanish

Gender: Female

Birthplace: Bilbao, Spain, 20th November, 1965

### EDUCATION

PhD	Physics	Univ. Autónoma de Madrid (UAM), Spain	1993
MSc	Physics	Univ. Autónoma de Madrid (UAM), Spain	1990
BSc	Physics	Univ. Complutense de Madrid (UCM), Spain	1988

### PROFESIONAL AFFILIATIONS

1993: Spanish Astronomy Society / Sociedad Española de Astronomía (SEA)

European Astronomical Society (EAS)

2000: National Researchers' System / Sistema Nacional de Investigadores (currently SNI III = Full Professor), Consejo Nacional de Ciencia y Tecnología (Conacyt), Mexico

2003: Mexican Academy of Sciences / Academia Mexicana de Ciencias (AMC)

2006: International Astronomical Union (IAU)

2016: Mexican Physics Society / Sociedad Mexicana de Física (SMF)

**RESEARCH INTERESTS.** Astrophysics and Cosmology: galaxy formation and evolution, active galactic nuclei, starbursts, supernovae

### POSITIONS AND APPOINTMENTS

2018-: *Director* of the International School for Young Astronomers, IAU.

2016-2018: Deputy Director of the International School for Young Astronomers, IAU.

2015-2018: Treasurer and Member of the *Directing Board*, Southeastern Region AMC.

2011-2016: *Head of the Department* of Astrophysics, INAOE, Mexico.

2006-2013: *Coordinator*, Astronomy Section, AMC, Mexico.

1998-: *Researcher* (current level Full Professor), INAOE, Mexico, tenured since 2004.

1996-1998: *Marie Curie Fellow*, Max-Planck Institut für Astrophysik, Germany.

1993-1996: *Marie Curie & Basque Gov. Research Fellow*, Royal Greenwich Obs., UK.

1992-1993: *Teaching Assistant*, Theoretical Physics Dept., Univ. Autónoma de Madrid, Spain.

## SELECTION OF RESEARCH ACTIVITIES

- *142 refereed papers* in international journals, 14 invited review papers and 56 contributed papers in conference proceedings, 3 chapters of books, 7 books/reports.
- *> 7000 citations* (NASA's Astrophysics Data System), with a Hirsch index  $H=49$ .
- *54 review/invited talks* in conferences and workshops, 57 colloquia in research institutes.
- SOC member of 30+ national and international conferences (Argentina, China, Colombia, France, Egypt, Ethiopia, Italy, Mexico, Spain, South Africa, S. Korea, USA)
- *10 funded research projects as principal investigator*, >10 as co-investigator.
- *Project scientist of TolTEC* (bolometer camera for 50m LMT), co-investigator of the following science teams: AzTEC (1.1mm camera, 50m LMT), CanariCam (IR camera, 10m-GTC), Cosmology Legacy Survey (SCUBA2), H-ATLAS (Herschel).

## SELECTION OF TEACHING ACTIVITIES

- 14 invited lecture courses in IAU schools or other university PhD programs (Costa Rica, Spain, USA, Venezuela).
- Lecturer of 24 MSc/PhD courses at INAOE (since 1998) and 5 BSc courses as assisting professor at UAM-Spain (1989-1993), as member of staff.
- (Co-)/supervisor of 7 PhD, 6 MSc, 2 BSc theses and 12 BSc research projects.
- Director of 6 IAU International Schools for Young Astronomers (Inc. INAOE, 2005).

## SELECTION OF OUTREACH ACTIVITIES

- Co-author (compiler, editor and translator) of the book "The Large Millimeter Telescope: Neighbors Explore the Cosmos" (in English & Spanish)
- 22 science-popularization papers in printed media (in Spanish & Basque).
- 50+ science-popularization talks (in Spanish & Basque), + social media outreach posts

## SELECTION OF COMMITTEE WORK

- *Coordinator/coauthor* of Conacyt-PILA plan "Nature of the Universe" (2014-2018) and of the National Science Plan, UNAM (2018).
- *(Co-)author of* reports on the state of astronomy research in Mexico (Academia Mexicana de Ciencias, Colegio Nacional, Mexico 2008, 2010, 2013), and of research-project evaluation in Mexico (FCCyT 2014).
- *Researchers hiring/assessment*: SNI (Mexico, 2014, 2018-2021, chair 2020), Hubble Fellows (USA, 2014), Ramón y Cajal Fellows (Spain, 2013), universities/institutes in Mexico, USA.
- *Member, CONACYT committees* for funding of basic science (Mexico, 2009, 2010).
- Frequent *referee/evaluator* of peer-reviewed research journals (MNRAS, ApJ, A&A), MSc/PhD theses (Mexico, USA, Spain), science funding agencies (Argentina, Canada, The Netherlands, Mexico, Spain), and TACs (Germany, Spain, UK).
- *Time Allocation Committees* (TACs): ALMA (2019), Hubble Space Telescope (1999, 2004-2006, 2011, 2017, 2018), Canary Island telescopes (2005), 10-m Gran Telescopio Canarias (cochair 2008-2013), OAGH-INAOE (chair 2005-2006).