# **ANTONIO HALES**

Astrophysicist, researcher and data analyst with strong background in commissioning state-of-the-art scientific hardware/software.

Raise awareness. Inspire others. Pass on a better world.

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#### WORK EXPERIENCE

# Science Operations Astronomer Atacama Large Millimeter Array (ALMA) ☑

01/2008 - Present Santiago, Chila ALMA Observatory/National Radio Astronomy Observatory (US) Achievements/Tasks

- ALMA Commissioning Scientist (2008-2011): Design, implementation, and execution of scientific verification of ALMA System Requirements.
- Acceptance Manager for the scientific verification of 210 high-frequency heterodyne receivers. Designed and conducted tests to verify technical specifications.
- Deputy Manager for ALMA Calibration: developed and executed the ALMA Calibration Plan.
- Software Development Manager for ALMA Dashboard: interactive planning and coordination tool that reflects the observatory status and of all its equipment used intensively in daily scientific and engineering operations.
- Assisted NASA's New Horizons spacecraft to reach Pluto by performing high-accuracy ALMA astrometric observations.
- Promoter for public engagement and more astronomy literate society: outreach talks, media, faculties, and underrepresented communities.

Contact: Lars-Ake Nyman - lnyman@eso.org

# **ALMA Postdoctoral Researcher** National Radio Astronomy Observatory

10/2006 - 09/2008

Charlottesville, Virginia

- Achievements/Tasks
- Developed methodologies to test and improve the socalled ALMA Line Length Correction System in the early stages of development.
- Tested and verified early prototypes of the ALMA Control Software.
- Tested Antenna servo and drive systems. Performed holographic measurements of antenna surface.

Contact: Al Wootten - awootten@nrao.edu

# **EDUCATION**

**PhD in Astrophysics** University College London

09/2003 - 07/2007

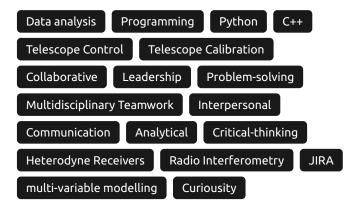
London, United Kingdom

# **BSc in Astronomy** Universidad de Chile

03/1998 - 12/2002

Santiago, Chile

# **SKILLS**



## OFFICE OF DIVERSITY AND INCLUSION

Associated Universities Incorporated (01/2015 - Present)

Manager of the Research Experience for Undergraduate program for underrepresented chilean student populations in astronomy.

## **HONOR AWARDS**

AVONI Prize for Inovation (12/2017)

Ministry of Culture, Government of Chile

 Lead Scientist for creation of a soundbank that invites electronic music producers and scientists to create music with the signals coming from space. The project has reached an audience of thousands.

#### **LANGUAGES**

English				
Spanish		•	•	•
French		•	•	•
Portuguese	•			

#### SUPPORTED CAUSES

Diversity and Inclusion in STEM SOS Children's

One Coin For Life

#### INTERESTS

Life in the Universe Tibetan Meditation Tai Chi

Chi Kunk Music Reading Nature Dreams