

María Teresa Valdivia Mena

Curriculum Vitae

Camino del Observatorio 1515, Las Condes, Santiago

☎ +56 9 68467981

✉ maria.valdivia@ug.uchile.cl

Education

- March 2018 - Present **Master of Science in Astronomy**, *Universidad de Chile*, Santiago, Chile, **Currently enrolled.**
- March 2014 - December 2017 **Bachelor of Science in Astronomy**, *Universidad de Chile*, Santiago, Chile, Graduated with Highest Distinction.
- March 2016 - December 2017 **Minor in Scientific Computing**, *Universidad de Chile*, Santiago, Chile.
- March 2012 - December 2013 **International Baccalaureate (IB) Diploma**, *Santiago College School*, Santiago, Chile.
High Level: Physics, Mathematics and English (Literature). Standard Level: Spanish (Language and Literature), Biology and Psychology

Research Experience

Proceedings

- August 2019 **Molecular Clouds resolved with ALMA ^{12}CO J=1-0 and J=2-1 observations towards the Magellanic Bridge**, Valdivia, M. T., Muñoz, M., Rubio, M. and Saldaño, H., *Boletín de la Asociación Argentina de Astronomía*, 61, 134-136.

Conferences and Workshops

- October 7th - 12th, 2018 **Second Binational AAA-SOCHIAS Meeting**, *Hotel Club La Serena*, La Serena, Chile, **Poster:** *Molecular Clouds Resolved in $^{12}\text{CO}(1-0)$ and $^{12}\text{CO}(2-1)$ in the Magellanic Bridge.*
- October 1st - 5th, 2018 **II International Astrochemistry School**, *Universidad Autónoma de Chile*, Santiago, Chile.
- August 20-29th, 2018 **La Serena School for Data Science: Applied Tools for Data Driven Sciences**, *Association of Universities for Research in Astronomy (AURA) Campus*, La Serena, Chile, **Project:** *Global Obesity Prevalence: Important Factors and Characteristics.*
- August 9-12th, 2017 **III Congreso de Estudiantes de Ciencias Físicas y Astronómicas**, *Universidad de La Serena*, La Serena, Chile.
- March 6-7th, 2017 **Workshop de Estudiantes de Astronomía**, *Observatorio Astronómico Nacional*, Santiago, Chile, **Talk:** *Characterizations of CO Emissions in MagBridgeC.*

Observing Experience

- May 2018 **Atacama Pathfinder Experiment (APEX) Period C103**, *Chilean time observer*, Chile.

- April 2018 **Atacama Pathfinder Experiment (APEX) Period C101**, *Chilean time observer, Chile.*
- June 2017 **Atacama Pathfinder Experiment (APEX) Period C99**, *Chilean time observer, Chile.*

Teaching Experience

- September 2018 - Present **Teaching Assistant for the course "Experimental Astronomy"**, *Universidad de Chile*, Includes giving classes, marking and supervising activities, Undergraduate course.
- March 2019 - July 2019 **Teaching Assistant for the course "Introduction to Cosmology"**, *Universidad de Chile*, Includes giving classes and marking, Undergraduate course.
- January 2019 **Teaching Assistant for Universidad de Chile's Summer School**, *Escuela de Verano, Universidad de Chile*, Course: Planetary Sciences, High School level.
- September 2017 - October 2017 **Teaching Assistant for the Data Visualization Diploma**, *Pontificia Universidad Católica de Chile*, Diploma Course.
- March 2017 - July 2017 **Teaching Assistance for the course "Mechanics"**, *Universidad de Chile*, Includes giving classes and marking, Undergraduate Course.

Funding and Awards

- July 2018 **Adelina Gutierrez Grant**, *Sociedad Chilena de Astronomía*, The grant funded the assistance to the Second Binational AAA-SOCHIAS Meeting.
- March 2018 **Scholarship for National Master Studies**, *Comisión Nacional de Investigación en Ciencia y Tecnología (CONICYT), Chile*, The scholarship funds master studies done in Chilean universities.
- 2016-2017 **Outstanding Student in the Bachelor of Science in Astronomy**, *Universidad de Chile*.

Outreach Experience

- July 2018 - Present **Member of "Cazadoras de Estrellas" Project**, *DIRVEX, Universidad de Chile*, This outreach project is lead by a group of female graduate students from the Astronomy Department. The goal is to give high school girls a hands-on experience with astronomical data and meet female astronomers so that they can solve any vocational doubts about this career.
- June 27th 2019 **"Eclipses: Luces y Sombras en el Universo"**, *Public talk, Middle School level, Municipalidad de El Bosque, Santiago, Chile.*
- April 9th, 2019 **"Astroinformática para principiantes"**, *Public talk, High School level, DUOC UC Puente Alto, Santiago, Chile.*
- March 21st, 2019 **"Astroinformática para principiantes"**, *Public talk, General Audience level, Centro de Extensión de la Universidad de Talca, Talca, Chile.*
- June 2018 - November 2018 **Scientific Counselor**, *Liceo Polivalente San José de Maipo, Festival de Teatro y Ciencias (FETYC), Par Explora Sur Oriente, CONICYT.*
The FETYC is a theatre competition organized by the National Commission of Scientific and Technologic Investigation (CONICYT) where several schools prepare a play around a scientific inquiry. The Scientific Counselor guides the scientific content of the plays.

March 2018 - **Tourist Guide**, *National Astronomical Observatory, Departamento de Astronomía*,
August 2018 *Universidad de Chile*.

Skills and Qualifications

Languages English, Spanish (Native)

Programming Python, Java, C, Matlab/Octave, R, HTML

Astronomy CASA (Common Astronomy Software Applications), GILDAS, SAOImage DS9

Version GitHub, Google Drive

**Controlling
Tools**

Service and Leadership

April 2019 - **Graduate Student Representative**, *Departamento de Astronomía, Universidad de Chile*, Santiago, Chile.
Present

March 2012 - **Social Service Comission Director**, *Student Council*, Santiago College, Santiago, Chile.
March 2013

2005-2012 **Scout Member**, *Miembro del Grupo de Guías y Scouts del Santiago College*, Distrito Los Leones, Santiago, Chile.

References

Prof. Mónica Rubio, *Ph.D in Astrophysics*, Full Professor, Departamento de Astronomía, Universidad de Chile.
mrubio@das.uchile.cl

Mauricio Vargas, *Data Analyst*, Datawheel LLC, Cambridge, USA.
mvargas@dcc.uchile.cl