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**Education**

- **PhD Astronomy, Yale University** 2011-present  
*Thesis: Probing the Earliest Phases of Star Formation: Characterization of First Core Candidates*  
 Advisor: Dr. Héctor Arce
  - **Master of Science in Astronomy, Universidad de Chile** 2011  
*Thesis: The structure of MgII gas halos at high redshift*  
 Advisor: Dr. Sebastián López
  - **Bachelor of Science in Astronomy** 2009  
 Universidad de Chile
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**Other Research Experience**

- **Research Assistant**, Abdul Latif Jameel Poverty Action Lab, regional office in Chile Fall 2012
  - **Astronomy Research assistant**, Universidad de Chile Spring 2008-Fall 2009
  - **Astronomy internship**, Las Campanas Observatory January 2008
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**Teaching Experience**

- **Teaching Assistant** at Yale University  
 Frontiers and Controversies in Astrophysics Spring 2016  
 Archeoastronomy Spring 2014  
 Planets and Stars Fall 2014
  - **Lecturer** at Universidad Andrés Bello  
 Fundamentals of Physics Spring 2010
  - **Teaching Assistant** at Universidad de Chile  
 Observational astronomy Autumn 2010  
 Newtonian physics Autumn 2008-2010  
 Astronomy summer school for high school students Summer 2009  
 Thermodynamics Spring 2008
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## Skills

- **Computing**  
OS: GNU/Linux, Windows  
Programming: Python, Matlab, R, C/C++, Java, LaTeX, shell-scripting(bash, csh)  
Astronomy Tools: MIRIAD, IRAF, MIDAS, CASA  
Plotting: Matplotlib (Python, Matlab), SuperMongo  
Numerical/Astronomy libraries: numpy, scipy, astropy, lmfit (All in Python)
  - **Languages**  
Spanish (native), English (fluent)
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## Refereed Publications

- **Lead Author**  
**Maureira, Maria Jose;** Arce, Hector; Dunham, Michael M.; Pineda, Jaime E.; Fernandez-Lopez, Manuel; Chen, Xuepeng; Mardones, Diego.  
*Kinematics of a young low-mass star forming core: Understanding the evolutionary state of the First Core Candidate L1451-mm*, accepted to ApJ. [arXiv:1612.01581](https://arxiv.org/abs/1612.01581)
  - **Co-Author**  
Andrews *et al.* (**incl M. Maureira**), *Galaxy Clusters in the Line of Sight to Background Quasars. III. Multi-object Spectroscopy*, 2013, ApJ, 774, 40A.  
  
Noterdaeme *et al.* (**incl M. Maureira**), *Discovery of a compact gas-rich damped Lyman- galaxy at  $z = 2.2$ : evidence of a starburst-driven outflow*, 2012, AA, 540A, 63N.  
  
Contreras *et al.* (**incl M. Maureira**), *The Carnegie Supernova Project: First Photometry Data Release of Low-Redshift Type Ia Supernovae*, 2010, AJ, 139, 519C.  
  
Tejos *et al.* (**incl M. Maureira**), *Casting Light on the “Anomalous” Statistics of Mg II Absorbers Toward Gamma-ray Burst Afterglows: The Incidence of Weak Systems*, 2009, ApJ, 706, 1309T.
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## Honors and Awards

- **Fulbright Scholarship to Doctoral studies** 2011-2015
  - **Scholarship to Master and Doctoral studies** 2009-2015  
Chilean national commission to scientific and technological research (CONICYT)
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## Conferences and Workshops

- **Talk Contributions**
  - “ALMA observations of Envelopes around First Core Candidates” Star Formation Regional Meeting at Yale University, January 2017
  - “Kinematics of envelopes around two first cores candidates” Star Formation Regional Meeting at Harvard-Smithsonian Center for Astrophysics, January 2016

- “*Kinematic study of intervening MgII absorbers in GRB sightlines*” at Chilean Astronomical Society annual reunion. Universidad de Concepción, Chile. January 2010.

- **Poster Contributions**

- *Kinematics of envelopes around First Core Candidates*, Workshop on Dense Cores: origin, evolution and collapse, Monterrey, CA. (2014)
- *Probing the Earliest Phases of Star Formation: Observations of Two First Core Candidates*, Protostars and Planets VI, Heidelberg, Germany. (2013)
- *Kinematic study of intervening absorbers in GRB sightlines*, IAU General Assembly. Rio de Janeiro, Brazil. (2009)

- **Attendance**

- “**Summer School in Statistics for Astronomers**” International workshop. Pennsylvania State University, U.S. June 2012.
- “*Supercomputing techniques in astrophysics* ” International workshop. Universidad Católica, Santiago, Chile. April 2010.
- “*Galaxy clusters in the Early Universe*” International meeting. Pucón, Chile. November 2009.

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## Service & Outreach

- Volunteered at **All Our Kin**, U.S. based non-profit organization that supports and sustains community child care providers.  
*2015*
  - President of the student organization “Master students of Astronomy” at Universidad de Chile.  
*2010*
  - Chile National Astronomical Observatory Guide.  
*2009*
  - Volunteered to support students of under performing schools (by helping them to strengthen their fundamentals/basic subjects) at Santiago, Chile.  
*Spring 2008*
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