Ana-Maria A. Piso

CONTACT Information

EDUCATION

Department of Earth, Planetary, and Space Sciences

595 Charles E. Young Dr. East

Los Angeles, CA 90095

Phone: (617) 818-6780

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WWW: www.cfa.harvard.edu/~apiso

Harvard University, Cambridge, MA

Ph.D., Astronomy & Astrophysics, April 2016

Advisor: Prof. Karin Öberg

Thesis Title: "Origins of Gas Giant Compositions: The Role of Disk Location and Dynamics"

Harvard University, Cambridge, MA

A.M., Astronomy & Astrophysics, May 2013

Advisor: Dr. Ruth Murray-Clay

Research Exam Project: "On the Minimum Core Mass for Giant Planet Formation"

Massachusetts Institute of Technology, Cambridge, MA

S.B., Physics, June 2010 S.B., Mathematics, June 2010

RESEARCH EXPERIENCE & EMPLOYMENT Postdoctoral Scholar

September 2016 - present

Los Angeles, CA

UCLA, Department of Earth, Planetary, and Space Sciences

Advisor: Prof. Hilke Schlichting

Postdoctoral Fellow

July 2016 - August 2016

Harvard College Observatory Cambridge, MA

Advisor: Prof. Karin Öberg

Research assistant

August 2010 - July 2011

MIT, EAPS Department Cambridge, MA

Project: The Magnetic Field Signature of Super Earths

Advisor: Prof. Sara Seager

Undergraduate researcher

June 2008 - June 2010

MIT, Kavli Institute or Astrophysics Cambridge, MA

Project: The Solar Wind (2008) & Structure of Accretion Disks (2009 - 2010)

Advisors: Dr. Paola Rebusco & Prof. Edmund Bertschinger

Research assistant

June 2009 - August 2009

Vienna University of Technology (TU Wien) Vienna, Austria

Project: Exact relativistic viscous fluid solutions in near horizon extremal Kerr background

Advisor: Dr. Daniel Grumiller

Undergraduate researcher

January 2007 - August 2007

Cambridge, MA

MIT, Laboratory of Nuclear Science

Project: Dark Matter Direct Detection

Advisors: Prof. Gabriela Sciolla & Dr. Denis Dujmic

Assistant manager

November 2005 - June 2006

Neuron Group S.R.L. Software Company

Bucharest, Romania

Digital map designer and database manager for the '112 Emergency Call Center' project

TEACHING & OUTREACH

WISTEM Program Mentor

Mentor for a Harvard College undergraduate

September 2013 - May 2016

Cambridge, MA

MIT Educational Counselor

Interviewer for prospective undergraduate students

December 2011 - present Cambridge. MA

Science Club For Girls Mentor Scientist

September 2014 - May 2015

Taught second grade girls at the Amigos School the class "Sound & Light" Cambridge, MA

CfA Summer Mentor

June 2014 - August 2014

Co-mentored an REU summer student

Cambridge, MA

Co-Organizer of Harvard Graduate Student Prospective Visits March 2013

Organized and coordinated meetings and activities for two groups of 10 prospective graduate students each Cambridge, MA

Teaching Fellow

February 2012 - May 2012

Harvard College class SPU 30: Life as a Planetary Phenomenon

Cambridge, MA

Course Head: Prof. Dimitar Sasselov Held two weekly two-hour sections

Refereed Publications **Piso, A.-M. A.**, Pegues, J., & Öberg, K.I. The Role of Ice Compositions and Morphology For Snowlines and the C/N/O Ratios in Active Disks. ApJ, accepted: arXiv:1611.00741

Piso, A.-M. A., Öberg, K. I., Birnstiel, T., & Murray-Clay, R. A. C/O and Snowline Locations in Protoplanetary Disks: The Effect of Radial Drift and Viscous Gas Accretion. ApJ, 2015, 815, 109

Piso, A.-M. A., Youdin, A. N., & Murray-Clay, R. A. Minimum Core Masses for Giant Planet Formation with Realistic Equations of State and Opacities. ApJ, 2015, 800, 82

Piso, A.-M. A. & Youdin, A. N. On the Minimum Core Mass for Giant Planet Formation at Wide Separations. ApJ, 2014, 786, 21

Online

The Solar Wind

Publications & Educational Material

(Mathematica Demonstration Project: http://demonstrations.wolfram.com/TheSolarWind/) Author: Ana-Maria Piso

The Interplanetary Magnetic Field (Parker Spiral)

(Mathematica Demonstration Project:

http://demonstrations.wolfram.com/TheInterplanetaryMagneticFieldParkerSpiral/

Author: Ana-Maria Piso

Conferences and Seminars

Origins of Gas Giant Compositions: The Role of Disk Location and Dynamics

iPLEX Lunch Seminar, Los Angeles, CA, September 2016

Invited talk

Giant Planet Formation and Snowlines in Protoplanetary Disks

MIT Planetary Lunch Colloquium Series, Cambridge, MA, March 2016

Invited talk

Giant Planet Formation and Snowlines in Protoplanetary Disks

CfA Small Scale Seminar, Cambridge, MA, February 2016 Invited talk

The Role of Disk Volatile Chemistry and Dynamics in Shaping the Compositions of Nascent Planets

AAS 227^{th} Meeting, Kissimmee, FL, January 2016 Dissertation talk

C/O and Snowline Locations in Protoplanetary Disks: The Effect of Radial Drift and Viscous Gas Accretion

Extreme Solar Systems III, Waikoloa Village, HI, December 2015 Poster

Giant Planet Formation and Snowlines in Protoplanetary Disks

University of Michigan Astronomy Lunch Talk, Ann Arbor, MI, November 2015 Seminar speaker

Giant Planet Formation and Snowlines in Protoplanetary Disks

University of Chicago Exoplanet Journal Club, Chicago, IL, November 2015 Seminar speaker

Giant Planet Formation and Snowlines in Protoplanetary Disks

MIT Exoplanet Tea, Cambridge, MA, October 2015 Seminar speaker

Giant Planet Formation and Snowlines in Protoplanetary Disks

Center for Integrative Planetary Science Planet and Star Formation Seminar, Berkeley, CA, September 2015
Invited talk

Minimum Core Masses for Giant Planet Formation

CfA Exoplanet Pizza Lunch, Cambridge, MA, May 2015 Internal department talk

Minimum Core Masses for Giant Planet Formation

Star and Planet Formation in the Southwest, Oracle, AZ, March 2015 Contributed talk

On the Minimum Core Mass for Giant Planet Formation

CfA Exoplanet Pizza Lunch, Cambridge, MA, November 2013 Internal department talk

On the Minimum Core Mass for Giant Planet Formation

Protostars and Planets VI, Heidelberg, Germany, July 2013 Poster

On the Minimum Core Mass for Giant Planet Formation

IAUS 299: Exploring the Formation and Evolution of Planetary Systems, Victoria, BC, June 2013

Contributed talk

The Structure and Stability of Atmospheres Accreting around Protoplanetary Cores

Exoplanets in Multi-body Systems in the Kepler Era, Aspen, CO, February 2013

Poster

Magnetic field signature of Super Earths

AAS 217th Meeting, Washington, Seattle, January 2011

Poster

Exact relativistic viscous fluid solutions in NHEK background

APS April Meeting, Washington, DC, February 2010

Poster

The Solar Wind

Vienna Theory Lunch Club, TU Wien, Vienna, Austria, June 2009

Invited talk

Professional Activities & Service American Physical Society member American Astronomical Society member

Reviewer for ApJ

SKILLS

Microsoft Office, Corel, Database Desktop