

Ana-Maria A. Piso

CONTACT INFORMATION	Harvard-Smithsonian Center for Astrophysics 60 Garden Street, MS-10 Cambridge, MA 02138	<i>Phone:</i> (617) 818-6780 <i>E-mail:</i> apiso@cfa.harvard.edu <i>WWW:</i> www.cfa.harvard.edu/~apiso
EDUCATION	Harvard University , Cambridge, MA Ph.D., Astronomy & Astrophysics, May 2016 (expected) Advisor: Dr. Karin Öberg Thesis Topic: “Dynamics and Chemistry in Protoplanetary Disks” 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 Major GPA: 4.6/5.0 S.B., Mathematics, June 2010 Major GPA: 4.8/5.0	
RESEARCH EXPERIENCE & EMPLOYMENT	Research assistant MIT, EAPS Department Project: The Magnetic Field Signature of Super Earths Advisor: Prof. Sara Seager	August 2010 - July 2011 <i>Cambridge, MA</i>
	Undergraduate researcher MIT, Kavli Institute for Astrophysics Project: The Solar Wind (2008) & Structure of Accretion Disks (2009 - 2010) Advisors: Dr. Paola Rebusco & Prof. Edmund Bertschinger	June 2008 - June 2010 <i>Cambridge, MA</i>
	Research assistant Vienna University of Technology (TU Wien) Project: Exact relativistic viscous fluid solutions in near horizon extremal Kerr background Advisor: Dr. Daniel Grumiller	June 2009 - August 2009 <i>Vienna, Austria</i>
	Undergraduate researcher MIT, Laboratory of Nuclear Science Project: Dark Matter Direct Detection Advisors: Prof. Gabriela Sciolla & Dr. Denis Dujmic	January 2007 - August 2007 <i>Cambridge, MA</i>
	Assistant manager Neuron Group S.R.L. Software Company Digital map designer and database manager for the '112 Emergency Call Center' national project	November 2005 - June 2006 <i>Bucharest, Romania</i>
TEACHING & OUTREACH	WISTEM Program Mentor Mentor for a Harvard College undergraduate	September 2013 - present <i>Cambridge, MA</i>
	MIT Educational Counselor Interviewer for prospective undergraduate students	December 2011 - present <i>Cambridge, MA</i>

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., 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, accepted

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

PUBLICATIONS IN
PREPARATION

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

ONLINE
PUBLICATIONS &
EDUCATIONAL
MATERIAL

The Solar Wind
(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

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

SKILLS

Languages: Fluent in Romanian, English and Spanish, Conversant in German, Basics in French
Computer: Python, Mathematica, Matlab, LaTeX, C++, ROOT, Mac OS, Windows 2000/XP/Vista,
Microsoft Office, Corel, Database Desktop