Gerrit van der Plas

Astronomer

Summary

My research is centered on protoplanetary disks. During my PhD I focused on optical and near infrared, high-resolution spectroscopy of gas in disks around Herbig Ae/Be stars, which allows to study the physical and chemical structure and evolution of the terrestrial zone in protoplanetary disks. I continue to study these disks in high spatial resolution, adding optical (SPHERE) and sub-mm (ALMA) imaging to my toolkit. In recent years I started a large project to study disks around the lowest mass stars and brown dwarfs. This work is well in progress now and forms the basis for this fellowship application.

Education

2003–2005	MSc degree in Physics and Astronomy Master's degree in Astronomy. Thesis title "A monte carlo simulation of a study in selection effects and jet structure" under supervision of Professional Control of Professional Control	•
2001-2003	BSc degree in Physics and Astronomy Bachelors degree in Physics and Astronomy. Bachelor project on Apmotion in the jet of GRS1915 under supervision of Prof. Dr. Rob Fer	
2000-2001	Beta Gamma Propedeuse Astrophysics and Political Science A "propedeuse" is the name for the first year of any university e bachelor/master educational structure in the Netherlands	University of Amsterdam ducation in the pre-

Research experience

2013-present	Independent Fellow Independent researcher with a three year Fondecyt postd with as sponsors R. Mendez and F. Menard.	University of Chile, Santiago, Chile loctoral fellowship (information)
2011–2013	Postdoctoral Researcher Independent researcher for the Milenium Scientific Iniciativ etary Disks in ALMA Early Science" (MAD Nucleus). The planet formation hosted by the Universidad de Chile and (webpage)	nis is a centre for research on
2006–2010	PhD in Astronomy & Astrophysics Ph.D. on Warm Gas in Proto Planetary Disks under the Ancker at ESO and Prof. Dr. L.B.F.M Waters and Prof. Dr. Amsterdam. Ph.D. awarded on December 7th 2010	'

Teaching and Mentoring experience

2014-2015	Universidad de Chile	Master thesis supervision	
2014 2010	Co-supervised the master thesis research of Gijsbert van Malsen for the 9 months of his visit to Chile (from the Netherlands). The thesis was completed on August 31st 2015 and titled "The Structure of Protoplanetary Disks Around Brown Dwarfs and Low Mass Stars"		
2009-2010	University of Amsterdam Sterrenkunde 1 (Astronomy 101), University of Amsterdam	Teaching assistant	
2009-2010	University of Amsterdam Planeten Stelsels (Planetary Systems), University of Amsterdam	Teaching assistant	
2003-2005	University of Amsterdam 1st year students of Physics and Astronomy, University of Amsterdam	Tutor n .	

Organizational experience

workshop webpage			
Member of the LOC of the international workshop "Protoplanetary disks and the planets			
vember 3-7 2014			
workshop webpage			
shop: "Herbig Ae/Be stars: The missing link in star			
m April 7 - 11, 2014			
school webpage			
e of the 2013 summer school "Formacion Planetaria",			
t Chilean universities (more information)			
Calan star formation talks webpage			
eetings at the institute where I work. These meetings			
ce May 2013.			
no webpage available			
+ CO Workshop" (Amsterdam, The Netherlands).			
s with the VLT/CRIRES.			

Awards

2013-2016 Fondecyt Fellowship FONDECYT webpage

Fondecyt is a competitive 3 year postdoctoral research fellowship, funded by the state (Chile)

2006-2008 ESO Studentship

ESO studentship webpage

The European Organisation for Astronomical Research in the Southern Hemisphere awards several studentship positions each year in both Germany and Chile. The goal of the ESO studentship program is to connect Ph.D. students and their advisors throughout the ESO community with the activities and people at one of the world's foremost observatories, and offers an invaluable training opportunity for the next generation of Astronomers and users of ESO facilities.

Selected accepted observing proposals

- PI ALMA cycle 3 project 2015.1.00192.S: "Hunting for gaps in HAEBE disks" 4 hours
- PI ALMA cycle 3 project 2015.1.01460.S.: "Dynamical Masses of a Taurus Low Mass Star and Brown Dwarf" - 3.5 hours
- PI ALMA cycle 2 project 2013.1.00658.S: "Hunting for gaps in HAEBE disks" 3.3 hours
- PI ALMA cycle 1 project 2012.1.00743.S: "Detection and characterization of protoplanetary disks across the stellar/substellar transition" 2.4 hours
- PI VLT/SPHERE proposal 096.C-0459: "Observing Planet Formation in the Disk Around the Herbig Ae Star HD 97048 with SPHERE" - 1/2 night
- PI VLT/SPHERE proposal 095.C-0787: "A SPHERE-IFS Survey of Nearby Herbig Ae/Be Stars: Are All Group I Disks Transitional?" - 24 hours
- PI VLT/XSHOOTER 093.C-0109 and 096.C-0455: "Characterization of protoplanetary disks across the stellar/substellar transition" 25.9 hours
- PI Pdbl/IRAM projects S14AT and S15AU: "Particle growth in protoplanetary disks across the stellar/substellar transition" - 18.6 hours
- PI ATCA 2014atnf.prop.6245V: "Observing planet formation in the disk around HD97048" 26 hours

Publication list

Relevant publication statistics as of October 2015 are: 317 total refereed citations and a h-index of 9. Find all publications, including my PhD thesis and non-refereed publications, in this ADS library

0	_	_	4	_	_	L
u	O)	п	L	а	C.	Г

Ernesto Pinto Lagarrigue 247 Santiago, Chile

email: info@gerritvanderplas.com www: gerritvanderplas.com

languages

Fluent: Dutch + English
Conversational: Spanish + German

Computer skills

Experience with the radiative transfer code MCFOST and ProDiMo Programming in Python, IDL, CSS Experience with UNIX and OSX