

## CARSTEN DOMINIK

### PERSONAL

**Name:** Carsten Dominik  
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### EDUCATION

Masters Degree in Physics, Technical University Berlin, 1980  
PhD in Physics, Technical University Berlin, 1992, "*Dust Formation in Stellar Winds*"  
Habilitation 2002, Technical University Berlin "*Views on the Cosmic Dust Cycle*"

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### POSITIONS

Full Professor at the University of Amsterdam, since 2014  
Special Professor for Exoplanets, Radboud University Nijmegen, 2006-2014  
Associate Professor at the University of Amsterdam, 2009-2014  
Assistant Professor at the University of Amsterdam, 2003-2009  
Postdoc at the University of Amsterdam, 1999-2003  
Postdoc at Leiden University, 1995-1999  
National Research Council Fellow at NASA Ames, 1993-1995

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### LEARNED SOCIETIES

Member, International Astronomical Union (IAU)  
Member, Dutch Astronomy Club (NAC)  
I was also a member for the German Physical Society and the German Astronomical Society while living in Germany.

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### INTERNATIONAL COMMISSIONS

Chair, Allegro Steering Committee, 2012-2016  
Member ERC consolidator panel (2013, 2015, chair 2017)  
Member, NWO VIDI commission (2011, 2012)  
Member, Island Observatory TAC 2013-2015  
Coordinator, NOVA (Top Research School in the Netherlands) Network 2, 2011-2017  
Member, NWO VENI commission, 2003-2006  
Member, NWO Rubicon commission, 2007-2008

LOCAL  
COMMISSIONS

Chair, Colloquia organization at API, 2009-2012  
Member, SRON/UvA/VU collaboration committee, 2012-ongoing  
Chair, NOVA PhD supervision committee, 2006-2008 (Member 2003-2006)  
Chair, Open Day organization, 2003-2012

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SCIENTIFIC  
CONSORTIA

Dutch PI on ZIMPOL/SPHERE, Leader disk science team, 2010-ongoing  
Member Science Team SPICA/SAFARI, ongoing  
Member Science Team for MATISSE, 2013-ongoing  
Member DIANA disk modeling FP7 consortium, 2011-2016  
Dutch PI for intermediate mass stars, CHESS Key Program on HERSCHEL, 2005-2014  
CO-I DIGIT Key Program on HERSCHEL, 2005-2014  
CO-I WISH Key Program on HERSCHEL, 2005-2014  
CO-I HIFISTARS Key Program for HERSCHEL, 2005  
Member, Dust growth review for Protostars and Planets VI, 2005  
Member, CHEOPS Consortium, precursor for SPHERE, 2003-2005  
Member, HJHVEGA consortium for ISO, 1995-1999

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SCIENTIFIC  
ORGANIZATION  
COMMITTEES

International Workshop *The role of Ice for Planet formation* meeting, Lund, Sweden, May 2013  
International Conference *Planet Formation and Evolution*, Munich, Germany, September 2012  
International Workshop *Formation of Planetesimals*, Ringberg, Germany, 2006  
International Conference *From Disks to Planets: New observations, Models, and Theories*, Pasadena, California 2005  
International Workshop *Modeling the Structure and Physics of Protoplanetary Disks*, Ringberg, Germany, 2004

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SELECTED  
INVITED REVIEWS

Protoplanetary Disks – Theory, at conference Dust Growth in Star- and Planet-Forming Environments, Heidelberg June 2013  
Dust evolution and the formation of planets at conference Protostars and Planets VI, 2013  
Characteristics and Evolution of protoplanetary disks at conference HERSCHEL and the formation of stars and planetary systems, Göteborg, Sweden, 2010  
Growth of Dust as the initial step toward planet formation at conference Protostars and Planets V, Hawaii, 2007  
Please check the list of publications for more invited reviews.

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REFEREEING

Nature, Science, Astronomy and Astrophysics, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Icarus, Philosophical Magazine, several conference proceedings, referee for grant applications for NWO and for the DFG (Deutsche Forschungsgemeinschaft)

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## FUNDING

PI, NWO Top proposal *Herbig Ae/Be stars: Rosetta stone for understanding the formation of planetary systems*, 800 k€, 2015

PI of *Formation, composition and internal structure of rocky exo-planets*, a project in the NWO *Planetary and Exoplanetary Research Network and Programme*, together with W. van Westrenen, Free University. 200 k€, 2013.

CO-I of FP7 DISCANALYSIS program (PI Peter Woitke), 300 k€ for Amsterdam, 2011

Funds for the construction of SPHERE/ZIMPOL, obtained together with PI L. Waters: 650 k€ (450 k€ NWO-M, 100 k€ ASTRON, 150 k€ NOVA), 2000-2006

Marie Curie Reintegration grant for Chris Ormel, 2010, turned down by Chris Ormel in favor of a HUBBLE fellowship at UC Berkeley

PhD position through SRON/NOVA, taken up by Gijs Mulders, 200 k€

35 hours of GT on HERSCHEL Space observatory, 2008

NWO Top Talent Grant for Mihkel Kama, 2008, 200k€

CO-PI Van Gogh Dutch-French collaboration grants, 2005 and 2004

Open competition NWO, PhD position taken up by Dominik Paszun, 2003, ca 200 k€

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## CURRENT POSTDOCS

Lucas Ellerbroek, financed through NWO

Chris Ormel, since November 2014 (on his VIDI)

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## PHD STUDENTS

Former Postdocs

- Dr. Michiel Min (2010-2015), now leading the SRON Exoplanet group

Former PhD students:

- Rik van Lieshout, PhD 2015, now PD at Cambridge University
- Koen Maaskant, PhD 2014, will start at ASML soon
- Mikkel Nielsen, PhD 2013 at Nijmegen University, now at MPA in Garching
- Mihkel Kama, PhD 2013, now Postdoc in Leiden
- Gijs Mulders, PhD 2013, now Postdoc at University of Arizona
- Dominik Paszun, PhD 2008, now at Accenture Business Consultants
- Rien Dijkstra, PhD 2005 (co-promoter)
- Roy van Boekel, PhD 2004 (co-promoter), now at MPA Heidelberg
- Greet Decin, PhD 2004 (co-promoter)

Current PhD students:

- Gabriela Muro Arena, started September 2016
- Tomas Stolker, started September 2013, Funding through NOVA/API

- Lucia Klarmann, started June 2014, funding through NOVA
- Kaustubh Hakim (joined PhD project together with v. Westrenen, VU)

I have had a major hand in about a dozen PhD thesis prior to that: Arjan Verhoef, 2010, Chris Ormel 2008, Joke Meijer 2008, Michiel Min 2006, Stefanie de Ruyter 2005, Pedro Lacerda 2005, Henrik Nübold 2003, Jan Cami 2002, Gewndolyn Meeuws 2001, Jeroen Bouwman 2001, Yvonne Simis 2001.

#### TEACHING

- Master course Star and Planet Formation, 2006-2014 (every other year)
- Bachelor Course Zonnestelsel, 2005-2011, UvA
- Bachelor course Planetary Systems, Radboud University Nijmegen, 2007-2014
- Bachelor Course Planetary Systems, UvA 2013
- Workshop Astronomy (Bachelor 2<sup>nd</sup> year), 2005-2014
- Big History, 2007-2014, selected lectures in Amsterdam and Eindhoven
- Energy and Climate, 2010-2012, Lecture about planetary habitability
- Chemistry of Earth and Universe, UvA, lecture about solar system chemistry, 2005-2013

#### OUTREACH

Regular public talks for various organizations

Organization Open day 2003-2012

Frequent interviews by journalists about subjects of the day, also on the radio

Press releases related to HERSCHEL results, for example:

- Herschel discovers tip of cosmic iceberg around nearby young star , 2011
- Herschel spots comet massacre around nearby star, 2011

#### OTHER

Creator of Org-mode, an open-source software project for note-taking, project management, authoring and reproducible research, with an estimated  $10^5$  users and an active mailing list with 1500 subscribers: <http://orgmode.org>.

I also wrote the RefTeX package which is the Emacs support for LaTeX cross referencing (<http://www.gnu.org/software/auctex/reftex.html>), and the editor support for the IDL language ([http://www.gnu.org/software/emacs/manual/html\\_mono/idlwave.html](http://www.gnu.org/software/emacs/manual/html_mono/idlwave.html)), both widely used by astronomers and in science in general.

#### PUBLICATIONS

195 refereed papers, 314 total (October 2016)

NASA-ADS: 9156 citations, h=50

Google Scholar: 12205 citations, h=59 (46 since 2011), i10=170 (151 since 2011)