

Curriculum Vitae Nienke van der Marel

CONTACT INFORMATION

NRC Herzberg
5071 West Saanich Rd.
Victoria BC V9E 2E7
Canada

Phone: +1 250 363 3247
Mobile: +1 250 886 8959
E-mail: astro@nienkevandermarel.com
WWW: <http://www.nienkevandermarel.com>

PERSONAL

Date of birth: February 2nd, 1986
Place of birth: Groningen, the Netherlands
Nationality: Dutch

ACADEMIC JOBS

2017 - present NRC fellow, NRC Herzberg Institute for Astrophysics, Victoria, BC, Canada
2015 - 2017 Beatrice Watson Parrent Fellow, Institute for Astronomy, University of Hawaii, USA
2011 - 2015 PhD candidate, Leiden Observatory, Leiden University, the Netherlands

EDUCATION

Leiden Observatory:
2011 - 2015 PhD Astronomy with professor Ewine van Dishoeck (degree Cum Laude)
Thesis: Mind the gap: gas and dust in planet-forming disks
2009 - 2011 Master Astronomy and Instrumentation, Research track
Theses: - A prototype interferometric polarization compensator
- Outflow properties of Class I objects in Ophiuchus
2004 - 2009 Bachelors Physics and Astronomy
Thesis: Infrared spectroscopy of interstellar ice mixtures of H₂O, CO and CO₂
Christiaan Huygens College Eindhoven:
1998 - 2004 VWO, section Science and Technology with Latin and Greek

RESEARCH INTERESTS

Transitional disks – Resolved submillimeter imaging of protoplanetary disks – Millimeter interferometry – Molecular line modeling – Astrochemistry – Planet formation theory – Dust radiative transfer – SED modeling – Instrumentation

AWARDS AND NOMINATIONS

- ALMA Ambassador 2017, NRAO, Charlottesville, Virginia, USA (\$10k)
- C.J. Kok award Dissertation of the year 2015, Leiden University, the Netherlands
- PhD Cum Laude, Leiden University, the Netherlands
- Finalist Young Speaker Contest Fysica 2014, Dutch Physical Society, the Netherlands
- Runner up Discoverer of the Year 2013, Faculty of Science, Leiden University, the Netherlands
- Winner Bachelorproject competition (organized by SPIN and NNV), Fysica 2009, the Netherlands

TEACHING

Spring 2018 Guest lecturer in undergraduate course 'Planetary sciences', University of Victoria
Spring 2017 Lecturer in two month graduate course 'Astrochemistry', University of Hawaii
Spring 2017 Lecturer one-day workshop as ALMA Ambassador, University of Hawaii
Fall 2016 Guest lecturer in undergraduate course 'Senior Researchmethods', University of Hawaii
Fall 2015 Lecturer one-week workshop ALMA data reduction and DALI usage, Leiden Observatory
2010-2012 TA 3 semesters for 3rd year Bachelor course 'Observing techniques', Leiden Observatory

STUDENT SUPERVISION

Summer 2018 Supervision Coop student Nathaniel Comeau with Henry Ngo, NRC Herzberg
Summer 2017 Supervision REU student Elena Allen, University of Hawaii
2015-2016 Cosupervision grad student Christian Flores on master project, University of Hawaii
2014-2015 Supervision master student Bart Verhaar, Leiden Observatory
2013-2014 Supervision master students Sierk van Terwisga and Roman Tatch, Leiden Observatory

ACADEMIC
SERVICES

Jan 2018 - present CANFAR-ALMA working group, NRC Herzberg, Victoria, Canada
 Jan 2018 - present LOC New Horizons conference, Victoria, Canada
 June 2016 - present SOC Aspen Workshop on planet formation, Aspen, USA
 Dec 2016 - present SOC Symposium in celebration of Ewine van Dishoeck, Caltech, USA
 Jan 2016 - present Referee for ApJ, MNRAS, A&A, PASJ
 Sept 2016 - Sept 2017 UH TAC, Institute for Astronomy, University of Hawaii
 July 2016 - July 2017 Colloquium committee, Institute for Astronomy, University of Hawaii
 Dec 2016 - April 2017 Graduate admissions committee, Institute for Astronomy, University of Hawaii
 July 2014 - March 2015 SOC and organizer Lorentz Center workshop 'Transition disks and planet formation: link between models and observations', Leiden Observatory
 Jan 2014 - May 2014 LOC Oort colloquium 2014, Leiden Observatory
 April 2009, 2010 Jury member Amsterdam Master of Physics Symposium
 Sep 2005 - Sep 2006 Co-organizer NNV symposium Fysica 2006, Leiden
 Sep 2004 - April 2011 PR activities for physics/astronomy at Leiden University

TALKS AND
POSTERS

July 2018 Astrochemistry: Past, Present & Future, Pasadena, CA, USA (Contr. talk)
 March 2018 ESO Workshop Diversis Mundi, Santiago, Chile (**Invited review**)
 Oct 2017 Frank N. Bash symposium, Austin, TX, USA (**Invited talk**)
 June 2017 Protoplanetary Disks and Planet Formation, MIAPP, Garching, Germany (Contr. talk)
 March 2017 IAUS 332, Puerto Varas, Chile (Poster)
 Sept 2016 Berkeley CIPS seminar, Berkeley, CA, USA (**Invited talk**)
 May 2016 Resolving planet formation in the era of ALMA & XAO, ESO, Santiago, Chile (Contr. talk)
 April 2016 Young Solar Systems, Sant Cuget, Spain (**Invited talk**)
 March 2016 Synergistic Science in the Radio Regime, Carnegie, Pasadena, CA, USA (**Invited review**)
 March 2016 Planet formation and evolution conference, Duisburg, Germany (**Invited review**)
 March 2016 Protoplanetary Discussions, Edinburgh, UK (Contr. talk)
 May 2015 NAC (Dutch Astronomical Conference), Noordwijk, the Netherlands (Contr. talk)
 May 2015 IAUS 314, Atlanta, GA, USA (Contr. talk)
 April 2015 NOVA Network 2 meeting, Leiden, the Netherlands (Contr. talk)
 March 2015 Workshop Transitional disks, Lorentz Center, Leiden, the Netherlands (Contr. talk)
 Sept 2014 Science Day, Leiden Observatory, Leiden, the Netherlands (Contr. talk)
 Sept 2014 Planet formation and evolution conference, Kiel, Germany (Contr. talk)
 July 2014 Planetary systems across the HR diagram, Cambridge, UK (Poster)
 April 2014 Herbig AeBe conference, Santiago, Chile (Contr. talk)
 March 2014 NOVA International Board meeting, Nijmegen, The Netherlands (Poster)
 Dec 2013 Subaru conference, Kona, Hawaii, USA (**Invited talk**)
 July 2013 Protostars & Planets VI, Heidelberg, Germany (Poster)
 June 2013 IAUS 299, Victoria, Canada (Contr. talk)
 April 2013 2013 Rocks, Waikoloa, HI, USA (Contr. talk)
 Dec 2012 First Science with ALMA, Puerto Varas, Chile (Contr. talk)
 March 2012 From atoms to pebbles: Herschel's view, Grenoble, France (Poster)
 June 2011 IAUS 208, Toledo, Spain (Poster)
 Sept 2010 Science Day, Leiden Observatory (Contr. talk)
 May 2010 NAC 2010, Nijmegen, the Netherlands (Poster)
 October 2008 ICWIP 2008, Seoul, South Korea (Poster)
 Aug 2007 ICPS 2007, London, UK (Contr. talk)

OUTREACH AND PRESS	<ul style="list-style-type: none"> • ESO Press release 'ALMA reveals planetary construction sites' (December 2015) • ESO Press release 'ALMA discovers comet factory' (June 2013) • Contributions to TV/radio interviews/documentaries, e.g. RTL, VPRO, NTR and CTV (2013-2015) • Head organizer Nederlandse Sterrenkunde Olympiade 2012, Leiden Observatory (Spring 2012) • Nerd nite talk Honolulu (2017) • Public talks at Science cafe Honolulu, Bishop Museum Honolulu, UH Hilo and other venues (2016-2017) • Public stand at Girl Scouts Hawaii STEM fest 2016 (Pearl Harbor) • Public talks at various Dutch astronomy societies (2011-2015) • Articles and interviews in Eureka! magazine (2007-2011) • Talks for PR events Leiden University (2007-2009) 	
	Oct 2016 - Nov 2017 Member Beautification committee Institute for Astronomy, University of Hawaii	
	Dec 2015 - Nov 2017 Volunteer Hawaiian Bicycle League, Honolulu, USA	
	Nov 2010 - July 2014 Member Social committee Leiden Observatory	
	Nov 2004 - August 2012 Editor of Eureka! Magazine (including 2,5 years as head editor)	
	Sep 2006 - Sep 2010 Member of the Senator Council of study society De Leidsche Flesch	
	Aug 2007 - June 2008 Member Lustrum Committee De Leidsche Flesch	
	April 2007 - April 2008 Student representative in the board of the NNV (Dutch Physical Society)	
	April 2007 - April 2008 President of SPIN (Students of Physics in the Netherlands)	
	Oct 2006 - April 2007 Secretary of SPIN	
SECONDARY ACTIVITIES	Sep 2005 - Sep 2006 Secretary of the board of De Leidsche Flesch	
	Oct 2005 - April 2006 Member of year book committee De Leidsche Flesch	
	(Sub)millimeter: ALMA (data reduction), SMA (8 nights, 2016; 5 nights, 2017), APEX (3 nights, 2012), CARMA (1 night, 2011), IRAM 30-m (4 nights, 2011), JCMT (data reduction),	
	Optical/NIR: Keck-NIRC2 (3 nights, 2016; 4 nights, 2017), Subaru-SCEXAO (4 nights, 2016; 2 nights, 2017), VLT X-shooter (scripts for queue observing, 2014), William Herschel Telescope (5 nights 2012, 6 nights 2013) and Isaac Newton Telescope (5 nights, 2007)	
	Mid/Far IR: Herschel-PACS (data reduction), VLT-VISIR (data reduction)	
	Programming: Python, IDL, CASA, CLASS, STARLINK, C++	
	Modeling: DALI, RADMC(-3D), LIME	
	OBSERVING AND TECHNICAL SKILLS	Aug 2010 - April 2011 Editor Astronomie.nl (NOVA Information Centre)
		July 2008 - April 2010 Administrative assistent NOVA
		1999 - 2007 Private tutor mathematics/physics high school students
Nov 2006 - April 2007 Tutor first year students physics/astronomy, Leiden University		
Sept 2006 - Jan 2007 Teacher computer courses for seniors, RedNose		
Feb 2006 - June 2006 Alumni coordinator physics department, Leiden University		
Sep 2005 - Jan 2006 Mentor first year students physics/astronomy, Leiden University		
Sep 2004 - Sep 2005 Student representative in Education committee, Leiden University		
NON-ACADEMIC JOB EXPERIENCE		Aug 2010 - April 2011 Editor Astronomie.nl (NOVA Information Centre)
		July 2008 - April 2010 Administrative assistent NOVA
	1999 - 2007 Private tutor mathematics/physics high school students	
	Nov 2006 - April 2007 Tutor first year students physics/astronomy, Leiden University	
	Sept 2006 - Jan 2007 Teacher computer courses for seniors, RedNose	
	Feb 2006 - June 2006 Alumni coordinator physics department, Leiden University	
	Sep 2005 - Jan 2006 Mentor first year students physics/astronomy, Leiden University	
	Sep 2004 - Sep 2005 Student representative in Education committee, Leiden University	