

Curriculum Vitae

Joop Schaye

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Personal

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Date of birth: June 29, 1973
Place of birth: Eindhoven, The Netherlands
Nationality: American, Dutch (dual citizenship)

Employment

2011– Full Professor, Leiden University, The Netherlands
2007–2011 Associate Professor, Leiden University, The Netherlands
2005–2007 Assistant Professor, Leiden University, The Netherlands
2002–2005 Long-term Member, Institute for Advanced Study, Princeton, USA
2000–2002 Member, Institute for Advanced Study, Princeton, USA

Education

1997–2000 Institute of Astronomy, University of Cambridge, U.K.:
• PhD Astrophysics, advisor: Prof. George P. Efstathiou
1996–1997 Department of Applied Mathematics and Theoretical Physics,
University of Cambridge, U.K.:
• Certificate of Advanced Study in Mathematics
1992–1997 University of Groningen, The Netherlands
• MSc Astronomy
• MSc Theoretical Physics

Honors

- 2011 European Research Council Starting Grant (PI)
- 2010 Pastoor Schmeits prize (awarded every 3 years to an astronomer - who either has the Dutch nationality or works in the Netherlands - for work done before the age of 40)
- 2007 Elected key researcher of NOVA (Dutch research school for astronomy)
- 2006 VIDI grant, NWO Innovational Research Incentives Scheme (PI)
- 2004 Marie Curie Excellence Grant (PI)
- 2002 Long-term membership, Institute for Advanced Study, Princeton
- 2000 Keck fellowship, Institute for Advanced Study, Princeton
- 1998 Kamerlingh Onnes Prize (for highest final GPA in physics), University of Groningen
- 1997 Isaac Newton Studentship, University of Cambridge
- 1997 MSc Astronomy: Distinction
MSc Theoretical Physics: Distinction
- 1996 Benefactor's scholarship, St. John's College, Cambridge
- 1993 Propaedeuse prize (for best 1st year exam results in physics), University of Groningen

Grants awarded as PI

2011	EUR	1,496,000	over 5 years	ERC starting grant	PI
2010	EUR	221,635	over 3 years	NWO open competition	PI
2009	EUR	201,140	over 4 years	NOVA phase 3, network 1	PI
	EUR	10,000		Lorentz Center workshop	PI
2008	EUR	314,000	over 5 years	NOVA phase 3, instrumentation	co-PI
2006	EUR	4,500		NOVA workshop	PI
	EUR	8,580		Lorentz Center workshop	PI
	EUR	600,000	over 5 years	NWO VIDI	PI
2005	USD	380,663	over 3 years	NSF AST-0507117	co-PI
2004	EUR	1,000,427	over 4 years	EU Marie Curie Excellence Grant	PI

Grants awarded as co-I (incomplete)

2011	EUR	779,100	over 4 years	EU IRSES network	co-I
2009	EUR	4,646,615	over 4 years	EU RTN network	co-I
	EUR	201,140	over 4 years	NOVA phase 3, network 1	co-I
	EUR	201,140	over 4 years	NOVA phase 3, cross network	co-I
	EUR	201,140	over 4 years	NOVA phase 3, network 3	co-I
2008	EUR	4,500		NOVA workshop	co-I
	EUR	9,000		Lorentz Center workshop	co-I

Teaching (lecture courses)

2011–	Stellar Structure and Evolution, graduate course, Leiden University
2006–	“De Melkweg en andere sterrenstelsels”, Laptop lectures for high school students
2005–2009	The Formation of Galaxies, graduate course, Leiden University
2007	Galaxies, NOVA graduate school
1997–2000	Physical Cosmology (supervisor), Part II Astrophysics, University of Cambridge
1997–1999	Theory of Relativity (supervisor), Part II Astrophysics, University of Cambridge

Supervision of students and postdocs

Postdocs	2005-2009	Claudio Dalla Vecchia
	2007-2011	Craig Booth
	2008-2010	Denis Serre
	2010-2013	Milan Raicevic
	2011-2014	Rob Crain
	2011-2014	Thomas Martinsson
PhD Students	2005-2009	Andreas Pawlik
	2005-2010	Robert Wiersma
	2006-2009	Alan Duffy (with Richard Battye/Scott Kay)
	2006-2010	Marcel Haas
	2007-2011	Olivera Rakic (with Charles Steidel)
	2008-2012	Freeke van de Voort
	2009-2013	Alireza Rahmati
	2010-2014	Marcel van Daalen (with Simon White)
	2011-2015	Alex Richings
	2011-2015	Monica Turner
MSc students	2011-2015	Marco Velliscig
	2006-2007	Olivera Rakic
	2007	Eveline van Scherpenzeel
	2007-2008	Freeke van de Voort
	2007-2008	Akila Jeesson Daniel
	2008-2009	Juan David Delgado
	2009-2010	Marcel van Daalen
	2010-2011	Caroline Straatman
	2010-2011	Willem de Pous
	2011	Nadieh Bremer

Recent professional activities

PI, OWLS collaboration (Overwhelmingly Large Simulations)
PI, EAGLE collaboration (Evolution and Assembly of GaLaxies and their Environments)
PI, Marie Curie Excellence Team
Member fo the executive board, MUSE (Multi Unit Spectroscopic Explorer)
Member of the steering committee, Virgo Consortium for cosmological supercomputer simulations
Key researcher, NOVA (the Dutch research school for astronomy)
Member, Editorial Board, Scientific Reports (Nature publishing group)
Member, astronomy program board, Lorentz Center
Member, MUSE science team
Member, LOFAR Epoch of Reionization science team
Member, ISTOS science team (Imaging Spectroscopic Telescope for Origins Surveys)
Member, Xenia science team (A probe of cosmic chemical evolution)
NL-representative, Euro-VO Data Center Alliance, Theoretical astrophysics expert group
Chair, LOC, “The chemical enrichment of the intergalactic medium”, May 2009
Chair, LOC, “Computational cosmology”, Jan 2007
Member, SOC, “The physics of galaxy formation”, Durham, UK, July 2011
Member, SOC, “The cosmic odyssey of baryons”, Marseille, France, June 2011
Member, SOC, “Gas in galaxies: from cosmic web to molecular clouds”, Seon, Germany, June 2011
Member, SOC, “Cosmological reionization”, Allahabad, India, Feb. 2010
Member, SOC, “Galaxies in real life and simulations”, Leiden, the Netherlands, Sep 2008
Member, SOC, “Theory in the Virtual Observatory”, Garching, Germany, Apr 2008
Member, SOC, IAU symposium 244: “Dark galaxies and lost baryons”, Cardiff, UK, June 2007
External PhD thesis examiner, Weidinger (Aarhus), Bolton (Cambridge), Worseck (Potsdam),
Reynolds (Edinburgh)
Various funding committee and referee work

Recent invited conference talks

- 2011 Does the redshift zero universe look as predicted by models?, Heidelberg, Germany (*review*)
The Cosmic Odyssey of Baryons, Marseille, France (*conference summary*)
The physics of galaxy formation, Durham, U.K. (*review*)
Gas in galaxies: from cosmic web to molecular clouds, Seon, Germany (*review*)
Galaxy evolution, Ringberg, Germany
- 2010 Pastoor Schmeitz prize lecture, National astronomy meeting, Cuijk, The Netherlands
Galaxies in the distant universe: Dynamics, gas, and early evolution, Ringberg, Germany
Oort workshop: Emergence of the Hubble Sequence at $1 < z < 3$, Leiden, the Netherlands
How to weigh clusters of galaxies, Leiden, the Netherlands
- 2009 Hunting for the dark: The hidden side of galaxy formation, Malta
The first galaxies: Theoretical predictions and observational clues, Rio de Janeiro, Brazil (*review*)
SFR@50: Filling the cosmos with stars, Spineto, Italy
Harvesting the desert: The universe between redshifts 1 and 3, Marseille France (*review*)
The cosmic evolution of helium and hydrogen, Ringberg, Germany (*review*)
- 2008 The impact of simulations in cosmology and galaxy formation, Trieste, Italy
The interplay between the interstellar and intergalactic media, Montreal, Canada
Far Away: Light in the young universe at redshift beyond three, Paris, France
Theory in the Virtual Observatory, Garching, Germany
- 2007 Gas accretion and star formation in galaxies, Garching, Germany
Dark galaxies and lost baryons, Cardiff, U.K. (*review*)
HI survival through cosmic times, Spineto, Italy
- 2006 The Kennicutt-Schmidt law, San Diego, USA
Non-virialized X-ray components in clusters of galaxies, Bern, Switzerland
The scientific requirements for Estremo/WFXRT, Bologna, Italy
- 2005 The scientific requirements for extremely large telescopes, Cape Town, South Africa (*review*)
Probing early structure formation with mass, light and chemistry, Minneapolis, USA
Open questions in cosmology: The first billion years, Garching, Germany
Reionizing the universe, Groningen, The Netherlands
From lithium to uranium: Elemental tracers of early cosmic evolution, Paris, France (*review*)
- 2004 Galaxy-intergalactic medium interactions, Santa Barbara, USA
The quest for a concordance cosmology and beyond, Cambridge, U.K.
CIAR meeting, Banff, Canada

Recent invited colloquia

2011	Massachusetts Institute of Technology	USA
	University of Nottingham	UK
2010	University of Texas	USA
	University of Cambridge	UK
2009	University of Hawaii	USA
2008	Joint ESO, MPA, MPE	Germany
	New York University	USA
	Institute for Advanced Study	USA
2007	University of Edinburgh	U.K.
2006	Institut d'Astrophysique de Paris	France
	Nijmegen University	The Netherlands
2005	Utrecht University	The Netherlands
	University of Amsterdam	The Netherlands
	ETH Zurich	Switzerland
	Joint ICTP-SISSA	Italy
2004	Leiden University	The Netherlands (2x)
	University of Toronto	Canada
	University of British Columbia	Canada
	University of Texas	USA
	University of Washington	USA (2x)
	University of Victoria	Canada (2x)
	Princeton University	USA
	Stanford University	USA
	University of Michigan	USA
2003	Columbia University	USA
	Penn State University	USA
	UC Santa Barbara	USA
	Yale University	USA
	University of Cambridge	U.K.
	University of Groningen	The Netherlands
	Max-Planck Institut für Astrophysik	Germany