

# CURRICULUM VITAE

## Volker Springel

### PERSONAL DATA

Born in Backnang/Germany, 18. Nov. 1970, married, 1 child,  
German citizen

*Work address:*

Max-Planck-Institute for Astrophysics  
Karl-Schwarzschild-Str. 1  
85740 Garching, Germany  
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Email: volker@mpa-garching.mpg.de

### EMPLOYMENT

Nov 2005 - present	Research group leader (W2, tenured) at the Max-Planck-Institute for Astrophysics, Garching, Germany.
May 2003 - Nov 2005	Tenure-track staff member at the Max-Planck-Institute for Astrophysics, Garching, Germany.
May 2001 - Apr 2003	Postdoc at the Max-Planck-Institute for Astrophysics, Garching, Germany.
Dec 2000 - Apr 2001	Business Consultant, Basycon Unternehmensberatung, Munich, Germany.
Oct 1999 - Nov 2000	Postdoc at the Harvard-Smithsonian Center for Astrophysics, Harvard University, Cambridge, USA.

### GRADUATE STUDIES

Feb 2000	PhD in Astrophysics (thesis submitted in July 1999), Ludwig-Maximilian-Universität München. Advisor: Prof. Dr. Simon D. M. White Title: <i>On the Formation and Evolution of Galaxies.</i>
Oct 1996 - Sep 1999	PhD-Scholarship at the Max-Planck-Institute for Astrophysics, Garching.

### UNIVERSITY EDUCATION

Oct 1996	Diploma in Physics, Eberhard-Karls-Universität Tübingen.
Jan 1996 - Oct 1996	Diploma Thesis, Max-Planck-Institute for Astrophysics and University of Tübingen Advisors: Prof. S. D. M. White and Prof. Hanns Ruder Title: <i>Topology and Luminosity Function of the PSCz Redshift Survey.</i>
June 1995 - Dez 1996	Study of Physics, Universität Tübingen.
Aug 1994 - May 1995	Graduate Studies in Physics, University of California at Berkeley (exchange student in the graduate program).
Oct 1991 - July 1994	Study of Physics, Universität Tübingen.

**MILITARY / CIVIL SERVICE**


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Aug 1990 - Oct 1991	Individual care for severely handicapped people ( <i>Individuelle Schwerstbehindertenbetreuung</i> ), Arbeiterwohlfahrt Backnang.
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**SCHOOL EDUCATION**


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June 1990	Abitur (German university entry qualification).
1981-1990	Secondary School, <i>Gymnasium in der Taus</i> , Backnang.
1977-1981	Elementary School, Backnang.

**AWARDS AND HONORS**


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Nov 2009	Klung-Wilhelmy-Weberbank Prize for Physics
Sep 2007	Selected by the European Commission and the Royal Society for the Member of European Parliament-Scientist pairing scheme.
July 2006	Elected as member of the "Young Academy" at the Berlin-Brandenburg Academy of Science and the German Academy of Sciences Leopoldina in Berlin.
June 2006	Selected into the "Eleven of Science" ( <i>Elf der Wissenschaft</i> ) by the <i>Stifterverband für die Deutsche Wissenschaft</i> .
Oct 2005	International Media Award for Science and Art.
Mar 2004	Heinz-Maier Leibnitz Prize of the German Science Foundation.
June 2000	Otto-Hahn-Medal, Max-Planck-Society.
May 1989 - Sep 1996	Scholarship of the German Scholarship Foundation ( <i>Studienstiftung des deutschen Volkes</i> ).
July 1990	XXI. International Physics-Olympiad, Groningen, silver-medal.
May 1990	2 <sup>nd</sup> place in physics in the German national science competition " <i>Jugend forscht</i> ".
July 1989	XX. International Physics-Olympiad, Warsaw, bronze-medal.

**COMMUNITY SERVICE***Refereeing:*

Monthly Notices of the Royal Astronomical Society, Astrophysical Journal, Physical Review Letters, Physical Review D, Nature, New Astronomy, Astronomy and Astrophysics, Computer Physics Communications, Publications of the Royal Astronomical Society of Australia, New Journal of Physics, Israel-American Science Foundation, National Science Foundation of the US, Netherlands Science Foundation, Austrian Science Foundation, Estonian Science Foundation, German Science Foundation (DFG), Alexander v. Humboldt Foundation. Guest Editor for New Journal of Physics.

*Public outreach activities:*

- Participation in exhibitions at 'Deutsches Museum' Munich (1999), on the ship 'MS Einstein' (2005), and at the Einstein Exhibition in Berlin (2005).
- Author or co-author of a number of articles on cosmology in popular science magazines, including IEEE Magazine,

- Sterne und Weltraum*, Physik Journal.
- Talks at Open House at MPA, Talks at *Volkssternwarten* (public observatories) or Planetaria in Bonn, Berlin, Munich, Ingolstadt, Nuremberg, Trebur, Frankfurt. Public talks in the 'Modern Physics' series at Ludwig-Maximilians University, and in the "Philosophy Garden" in Berlin.
  - Numerous interviews on TV, radio, and print/online media.

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## FORMER AND CURRENT STUDENTS

*PhD-thesis advised:* Martin Jubelgas, Debora Sijacki.  
*Diploma-thesis advised:* Martin Jubelgas, Markus Wadepuhl, Margarita Petkova.  
*Current students:* Margarita Petkova, Margherita Grossi, Silvia Bonoli, Steffen Hess, Chunyan Jiang, Markus Wadepuhl.

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## TEACHING EXPERIENCE

***IMPRS Munich: Advanced Course II***  
 (shared with Simon White and Ortwin Gerhard)  
 Garching, 9.4.-14.4.2008  
 Five days of 3-hour lectures on structure formation and numerical cosmology

***IMPRS Munich: Advanced Course II***  
 (shared with Simon White and Ortwin Gerhard)  
 Garching, 27.11.-1.12.2006  
 Five days of 3-hour lectures on numerical cosmology

***Helmholtz School of Astrophysics***  
 Potsdam, 31.7.-4.8.2006  
 Five days of 3-hour lectures on computational cosmology

***IAG-LENAC XIII Advanced School of Astrophysics***  
 Foz do Iguazu, Brazil, 6.4.-12.4.2006  
 Three 2-hour lectures on numerical cosmology

***Summer school of DFG-Schwerpunktprogramm "Zeugen der kosmischen Geschichte: Bildung und Entwicklung von Galaxien, Schwarzen Löchern und ihrer Umgebung"***  
 Bad Honnef, 3.-4.7.2006, Two 2-hour lectures on cosmology

***Graduate Student Instructor***  
 University of California at Berkeley, 1994/1995

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## SELECTED GRANTS

Cluster of Excellence "Origin and Structure of the Universe"  
 Transregional Collaborative Research Centre TRR33 "The Dark Universe"  
 NSF grant in the Petascale Computing Initiative (PI Tiziana Di Matteo, Carnegie-Mellon)  
 European Union ITN Network "CosmoComp" (PI Carlton Baugh, Durham)