

# JORICK VINK – CURRICULUM VITAE

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## CENTRAL RESEARCH:

Massive stars; stellar atmospheres and winds; polarimetry; young stars and star formation; stellar evolution; first stars and the early Universe  
Member of International Consortia: VLT FLAMES Tarantula survey, MIMES, COBRAS, EGAPS (incl. IPHAS)

## RELEVANT EDUCATION:

1996-2000 PhD in Astrophysics at Utrecht University, the Netherlands  
Thesis Title: “Radiation-driven winds of massive stars”  
1991-1996 Masters Degree in Astrophysics at Utrecht University, the Netherlands

## EMPLOYMENT TO DATE:

2007-present Research Astronomer at Armagh Observatory, Northern Ireland, UK  
2005-2006 RCUK Academic Fellow in Astrophysics, Keele University, UK  
2001-2005 Post Doctoral Research Associate at Imperial College London, UK  
1996-2000 Research Assistant (= PhD student) at Utrecht University  
1995-1996 Research Project at Goddard Space Flight Center (NASA), USA

## RELEVANT FUNDING:

- UK STFC (former PPARC) Standard Grant for a 3 year PDRA in the area of massive stars. Total Value 252,000 GBP
- part of the PPARC funded Rolling grant “Stellar Astrophysics at Keele”, of which my area of massive star feedback was awarded a PDRA for 2006-2008 - approx. value 250,000 GBP).

## PI OBSERVING TIME:

2006- 3 proposals (6 full nights) on ESO’s VLT (Periods 78, 81 & 85)  
2001- 15 proposals (36.5 nights) on WHT, UKIRT, and AAT (with UK oversubscription levels 3-5) corresponding to an approximate value of 1.1 million Euros

## RELEVANT RESEARCH SKILLS:

1996 - Numerical experience in ionization calculations and radiation hydrodynamics  
1995 - Numerical experience in spectral synthesis and polarization calculations  
2001 - Observational experience (VLT, WHT, AAT, OHP, INT, ESO3.6) and data reduction (e.g. spectropolarimetry)  
1999 - Fifteen lead-authored out of a total of 38 refereed papers in Journals such as A&A, ApJ  
Obtaining over ~1500 citations, with the vast majority to papers I have led

## RELEVANT ADMIN: REFEREEING/PANEL WORK ETC.:

- 2001 - Referee for Nature, A&A, ApJ(L), MNRAS, AJ, observing & grant proposals
- 2007 - Member of the Time Allocation Committee for the Gemini Telescopes (UK)
- 2007 - Secretary and Treasurer of the ASGI (Astronomy Group Ireland)
- 2008 - Organiser ASGI Spring Meeting in March 2008 (Armagh)
- 2008 - Organiser Massive star session at the National Astronomy Meeting (NAM) in 2008
- 2009 - Member of the STFC Astronomy Grants Panel (AGP)
- 2011 - HST time allocation panel

## SELECTED ORAL PRESENTATIONS IN RECENT MEETINGS:

- 1996-
  - Forty (Invited) 45-minute Seminars, and  $\simeq 45$  shorter talks
  - Twenty talks in inter/national conferences
  - mainly in the areas of massive stars and star formation, incl.:
- Mar 2010 **Invited** High Energy Density Laboratory Astrophysics, Caltech, Pasadena, USA
- Feb 2010 **Invited Review** Mass loss and Galaxy Evolution, RAS, London, UK
- Mar 2008 **Invited Review** IAUS 252: The Art of Modelling Stars in the 21st Century, China
- Jul 2007 Unsolved Problems in Stellar Physics, Cambridge, UK
- Jun 2007 Clumping in hot-star winds, Potsdam, Germany
- Nov 2006 **Invited** Core collapse supernovae and their massive progenitors, RAS, London
- Sep 2006 Circumstellar Media and Late Stages of Massive Stellar Evolution, Mexico
- Jul 2006 **Invited** The First Stars and Evolution of the Early Universe, Seattle, USA
- May 2006 **Invited Summary** Mass loss from stars and the evolution of stellar clusters
- Mar 2006 **Invited** Spectropolarimetry from Stars to Galaxies: Probing the Third Dimension, RAS
- Aug 2005 **Invited Review** Stellar evolution at low metallicity: mass loss, explosions, cosmology

## RESEARCH SUPERVISION:

- 2008- Prime supervisor of PhD students G. Barentsen, J. Bestenlehner, B. Petrov (Armagh)
- 2006- Prime supervisor of PDRAs (Keele: Müller, Armagh: Gräfener)
- 2003- Prime supervisor of several summer students (Imperial College London, Armagh)
- 2003- Co-supervisor of PhD student B. Davies (Leeds) and since 2006 L. Muijres (Amsterdam)
- 2002- Co-supervisor of undergraduate students, incl. R. Bonsee (Amsterdam) and M. Patel and J. Mottram (Leeds)