

PERSONAL INFORMATION

Male, November 22, 1988
hakim.kaustubh@gmail.com
http://www.exokaustubh.com

Science Park 904
1098 XH Amsterdam
The Netherlands

EDUCATION

Ph.D., Astrophysics (expected), University of Amsterdam, The Netherlands
Sep. 2014 – present
Supervisors: Prof. Carsten Dominik, University of Amsterdam
& Prof. Wim van Westrenen, Vrije University Amsterdam
Thesis: The mineralogy and structure of rocky exoplanets

M.Sc. (magna cum laude), Astronomy and Astrophysics, KU Leuven, Belgium
Sep. 2012 – July 2014
Supervisor: Prof. Tim Van Hoolst, KU Leuven / Royal Observatory Brussels
Thesis: The interior structure of super-Earths

B.Tech. (Honours), Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharagpur, India
Aug. 2006 – July 2010
Supervisor: Prof. Raja Datta, IIT Kharagpur
Thesis: Performance Evaluation of s-MAC protocol for Wireless Sensor Networks

RESEARCH EXPERIENCE

July – Aug. 2014, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
Supervisor: Dr. Alexis Smith
Data reduction pipeline of *Canada-France-Hawaii-Telescope* for *SuperWASP* exoplanets

Oct. – Dec. 2013, Mercator Telescope, Roque de las Muchachos Observatory, La Palma, Spain
Supervisors: Prof. Hans van Winckel, Dr. Andrew Tkachenko
Spectroscopic study of three *Kepler* planet candidates

Mar. – June 2013, Belgian Institute for Space Aeronomy, Brussels, Belgium
Supervisor: Dr. Johan de Keyser
Study of Earth's magnetopause based on the data from *Ampte/IRM* and *Cluster* spacecrafts

TEACHING/ SUPERVISION EXPERIENCE

2015 – 2017, *Teaching Assistant* for Interstellar and Circumstellar Matter, MSc in Astronomy & Astrophysics, University of Amsterdam

Feb. – July 2016, *Primary Supervisor* of Rob Spaargaren for his Bachelor Thesis which led to the attainment of a double BSc degree in Earth Sciences and Physics & Astronomy at Vrije University Amsterdam

SERVICE/ ORGANIZATIONAL WORK

Sep. 2016 – Sep. 2017, *PhD Representative*, PhD-PostDoc Council, API Institute for Astronomy, University of Amsterdam

13 May 2015, *Organizer*, Planetary and Exoplanetary Science Network (PEPSci) PhD-PostDoc Meeting, University of Amsterdam

Sep. 2012 – July 2014, *Student Representative*, Permanent Education Committee, MSc course in Astronomy and Astrophysics, KU Leuven

INDUSTRY EXPERIENCE	July 2010 – Aug. 2012, Nomura, Mumbai, India – <i>Analyst</i> Product ownership and software development of an Equities trade monitoring tool used by traders and clients worldwide.
	May 2009 – July 2009, IBM, Bangalore, India – <i>Trainee</i> Software development of MisCompare Analysis Tool for the hardware verification of IBM PowerPC.
	May 2008 – July 2008, Omega Electronics, Jaipur, India – <i>Trainee</i> Designed an RFID based educational training kit and performed a product video demonstration for the Sales division.
	May 2007 – June 2007, TATA Power, Mumbai, India – <i>Trainee</i> Analyzed the calibration process of the transmitters used for pressure and temperature measurement in the two coal-based units of the 1580 MegaWatt thermal power station.
PUBLICATIONS	Hakim, K. , van Westrenen, W. and Dominik, C. (in preparation). A laboratory approach to probe the mineralogy of carbon-enriched rocky exoplanets.
	Hakim, K. , Rivoldini, A., Cottenier, S., Van Hoolst, T., Chust, T. and Steinle-Neumann, G. (in preparation). A new ab initio equation of state of hcp-Fe and its application to the interior structure and mass-radius relation of rocky super-Earths.
CONFERENCE CONTRIBUTIONS	Mar. 2017, Formation and Dynamical Evolution of Exoplanets, Aspen, Colorado, USA (<i>Talk</i>)
	Mar. 2017, the 48th Lunar and Planetary Science Conference, Houston, Texas, USA (<i>Talk</i>)
	May 2016, the 71st Netherlands Astronomy Conference, Nunspeet, The Netherlands (<i>Talk</i>)
	Apr. 2016, the 13th Netherlands Geology Congress, Veldhoven, The Netherlands (<i>Talk</i>)
	May 2015, Exoplanet Conference, Lund, Sweden (<i>Talk</i>)
	Oct. 2015, Exploring The Universe With James Webb Space Telescope, ESA-ESTEC, Noordwijk, The Netherlands (<i>Poster</i>)
SEMINARS	Sep. 2014, European Planetary Science Congress, Cascais, Portugal (<i>Poster</i>)
	Apr. 2017, Department of Geophysics, University of Chicago, Chicago, Illinois, USA
WORKSHOPS	Aug. 2016, Department of Physics and Astronomy, University of Los Andes, Bogotá, Colombia
	Oct. 2015, Application of X-ray metrology for material science research, University of Twente, Enschede, The Netherlands
	Mar. 2015, 45th Saas-Fee course on From Protoplanetary Disks to Planet Formation, Swiss Society for Astrophysics and Astronomy, Les Diablerets, Switzerland
	Oct. 2014, NOVA Fall School in Astronomy, Dwingeloo, The Netherlands