
**PERSONAL
INFORMATION**

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

Science Park 904
1098 XH Amsterdam
The Netherlands

EDUCATION

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

Sep. 2012 – July 2014, **M.Sc.** (magna cum laude), Astronomy & Astrophysics, KU Leuven, Belgium
Supervisors: Prof. Tim Van Hoolst & Dr. Attilio Rivoldini
Thesis: The interior structure of super-Earths

Aug. 2006 – July 2010, **B.Tech.** (Honours), Electronics Engineering, IIT Kharagpur, India
Supervisor: Prof. Raja Datta
Thesis: 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

Sep. – 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 & Circumstellar Matter, MSc in Astronomy & Astrophysics, University of Amsterdam

Feb. – July 2016, *Primary Supervisor* for the Bachelor thesis of Rob Spaargaren, double BSc in Earth Sciences and Physics & Astronomy, Vrije University Amsterdam

**SERVICE/
ORGANIZATIONAL
WORK**

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

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

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

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.

- INDUSTRY EXPERIENCE** July 2010 – Aug. 2012, *Analyst*, Nomura, Mumbai, India
Product ownership and software development of an Equities Trade Monitoring Tool used by traders and clients worldwide
- May 2009 – July 2009, *Trainee*, IBM, Bangalore, India
Software development of MisCompare Analysis Tool for the hardware verification of IBM PowerPC
- May 2008 – July 2008, *Trainee*, Omega Electronics, Jaipur, India
Development and demonstration of a sales video for a RFID-based educational training kit
- May 2007 – June 2007, *Trainee*, TATA Power, Mumbai, India
Analysis of the pressure-temperature calibration process of the transmitters of the 1580 MegaWatt thermal power station
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- SELECTED CONFERENCE CONTRIBUTIONS** Mar. 2017, Formation and Dynamical Evolution of Exoplanets, Aspen, Colorado, USA (*Talk*)
- Mar. 2017, the 48th Lunar and Planetary Science Conference, Houston, Texas, USA (*Talk*)
- May 2016, the 71st Netherlands Astronomy Conference, Nunspeet, The Netherlands (*Talk*)
- Apr. 2016, the 13th Netherlands Geology Congress, Veldhoven, The Netherlands (*Talk*)
- May 2015, Exoplanet Conference, Lund, Sweden (*Talk*)
- Oct. 2015, Exploring The Universe With James Webb Space Telescope, ESA-ESTEC, Noordwijk, The Netherlands (*Poster*)
- Sep. 2014, European Planetary Science Congress, Cascais, Portugal (*Poster*)
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- SEMINARS** Apr. 2017, Department of Geophysics, University of Chicago, Chicago, Illinois, USA
- Aug. 2016, Department of Physics and Astronomy, University of Los Andes, Bogotá, Colombia
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- WORKSHOPS** July 2016, New Directions in Planet Formation, Lorentz Center, Leiden, The Netherlands
- Oct. 2015, Application of X-ray metrology for material science research, University of Twente, Enschede, The Netherlands
- Mar. 2015, the 45th Saas-Fee course on From Protoplanetary Disks to Planet Formation, Swiss Society for Astrophysics & Astronomy, Les Diablerets, Switzerland
- Oct. 2014, NOVA Fall School in Astronomy, Dwingeloo, The Netherlands