

Kaustubh Hakim

PERSONAL INFORMATION

Male, November 22, 1988
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Science Park 904
1098 GE Amsterdam
The Netherlands

EDUCATION

VU University and University of Amsterdam, The Netherlands Sep. 2014–present
Ph.D. *Astrophysics* (expected)
Supervisors: Prof. Carsten Dominik, *University of Amsterdam*
and Prof. Wim van Westrenen, *VU University Amsterdam*
Thesis: High-pressure laboratory experiments to study the interior of rocky exoplanets

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

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

RESEARCH EXPERIENCE

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

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

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

CONFERENCE TALKS

Hakim, K.; van Westrenen, W.; Dominik, C., **High-pressure experiments to probe the interior of small rocky exoplanets**, 2016, *Netherlands Geology Congress*, Veldhoven, The Netherlands (7-8 April 2016).

Hakim, K.; van Westrenen, W.; Dominik, C., **High-pressure experiments to probe the interior of carbide exoplanets**, 2015, *Exoplanets in Lund*, Lund, Sweden (6-8 May 2015).

CONFERENCE POSTERS

Hakim, K.; van Westrenen, W.; Dominik, C., **High-pressure-temperature experiments to probe the interior of small rocky exoplanets**, 2015, *Exploring The Universe With James Webb Space Telescope*, ESA-ESTEC, The Netherlands (12-16 October 2015).

Van Hoolst, T.; Rivoldini, A.; **Hakim, K.;** Jaeken, J.; Cottenier, S., **High-pressure equations of state for iron and the interior structure of super-Earths**, 2014, *European Planetary Science Congress*, Cascais, Portugal (7-12 September 2014).

Hakim, K.; Van Hoolst, T.; Rivoldini, A.; Cottenier, S., **The interior structure of super-Earths**, 2014, the 69th *Dutch Astronomy Conference*, Noordwijk, The Netherlands (19-21 May 2014).

WORKSHOPS

45th Saas-Fee course on **From Protoplanetary Disks to Planet Formation**, Swiss Society for Astrophysics and Astronomy (SSAA), Les Diablerets, Switzerland (15-20 March 2015).

Nederlandse Onderzoekschool voor de Astronomie (**NOVA**) **Fall School in Astronomy**, Dwingeloo, The Netherlands (6-10 October 2014).

Application of **X-ray metrology for material science research**, University of Twente, Enschede, The Netherlands (1-2 October 2015).

INDUSTRY EXPERIENCE

Nomura, Mumbai, India – *Analyst* July 2010–Aug. 2012

Assigned the ownership and maintenance of Risk Engine, a **trade monitoring** tool for Equities Division of Nomura-Global. Regularly attended **business calls** with traders to understand their business requirements and provided a user friendly interface with the help of Java, SQL and Shell.

IBM, Bangalore, India – *Trainee* May 2009–July 2009

Developed the MisCompare Analysis Tool (MCAT) for the **hardware verification** of PowerPC FPU pseudo-random instruction streams using C and Shell. Was offered a **Pre-Placement Offer** to join IBM after graduation.

Omega Electronics, Jaipur, India – *Trainee* May 2008–July 2008

Drafted a new design for ETB-246, an educational training kit explaining the working of transformers. Did a live video demonstration describing the features of Radio frequency identification (RFID-1015) kit for the **Sales division**.

TATA Power, Mumbai, India – *Trainee* May 2007–June 2007

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.