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**PERSONAL  
INFORMATION**

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Citizenship: Indian

API Institute for Astronomy  
University of Amsterdam  
Science Park 904  
1098 XH Amsterdam, Netherlands

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**EDUCATION**

Sep. 2014 – Dec. 2018, Ph.D., Astrophysics, University of Amsterdam, The Netherlands  
*Supervisors:* Prof. Dr. Carsten Dominik & Prof. Dr. Wim van Westrenen  
*Thesis:* Diving deep into rocky exoplanets

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

Aug. 2006 – July 2010, B.Tech., Electronics Engineering, IIT Kharagpur, India  
*Supervisor:* Prof. Dr. Raja Datta  
*Thesis:* s-MAC protocol for Wireless Sensor Networks

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**DISTINCTIONS**

July 2014, Graduated M.Sc. degree with *magna cum laude*, KU Leuven

July 2010, Graduated B.Tech. degree with *Honours*, IIT Kharagpur

Apr. 2006, Secured 99.9 percentile among 0.5 million candidates in all-India engineering entrance examinations, IIT-JEE and AIEEE

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**PUBLICATIONS  
(REFEREED)**

Hakim, K., Rivoldini, A., Van Hoolst, T., Cottenier, S., Jaeken, J., Chust, T., Steinle-Neumann, G. (2018), 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, *Icarus* 313, 61–78.

Hakim, K., Spaargaren, R., Grewal D.S., Rohrbach A., Brendt J., Dominik, C., van Westrenen, W., Mineralogy, structure and habitability of carbon-enriched rocky exoplanets: A laboratory approach, *Astrobiology* (under review).

Hakim, K., van Westrenen, W., Dominik, C. (2018), Instability of silicon carbide in rocky exoplanets, *Astronomy & Astrophysics* 618, L6.

Hakim, K., van den Berg, A., Vazan, A., Höning, D., van Westrenen, W., Dominik, C., Thermal evolution of rocky exoplanets with a graphite outer shell (in preparation).

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**COMPUTATIONAL  
SKILLS**

*Languages:* Python, Shell scripting, Java, MySQL, C, Fortran90

*Software:* Mathematica, MATLAB

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**TEACHING/  
SUPERVISION  
EXPERIENCE**

2015–2017, *Teaching Assistant* for Interstellar & Circumstellar Matter, MSc

2016, Primary Supervisor for Rob Spaargaren, BSc

2018, Primary Supervisor for Dieke Beentjes, BSc

2018, *Teacher* for Planetary Science, MSc (Exoplanets lecture)

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**SELECTED  
CONFERENCE  
TALKS**

Apr. 2017, Formation and Dynamical Evolution of Exoplanets, Aspen, Colorado, USA

Mar. 2017, the 48th Lunar and Planetary Science Conference, Houston, Texas, USA

May 2016, the 71st Netherlands Astronomy Conference, Nunspeet, The Netherlands

Apr. 2016, the 13th Netherlands Geology Congress, Veldhoven, The Netherlands

May 2015, Exoplanet Conference, Lund, Sweden

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**SEMINAR**

Apr. 2017, Department of Geophysics, University of Chicago, Chicago, Illinois, USA

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**ADVANCED  
TRAINING  
COURSES**

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

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**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

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**SCIENCE  
COMMUNICATION/  
OUTREACH**

Mar. 2017, Participated in FameLab Amsterdam – a science communication workshop and competition

Aug. 2016, Gave a science talk for bachelor students at University of Los Andes, Bogotá, Colombia

Oct. 2014–2016, Volunteered during Public Science Day, University of Amsterdam, The Netherlands

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**FORMER  
RESEARCH  
EXPERIENCE**

July – Aug. 2014, Nicolaus Copernicus Astronomical Center, Warsaw, Poland

Data reduction pipeline of *Canada-France-Hawaii-Telescope* for *SuperWASP* exoplanets

Sep. – Oct. 2013, Mercator Telescope, Roque de las Muchachos Observatory, La Palma, Spain  
Spectroscopic study of three *Kepler* planet candidates

Mar. – June 2013, Belgian Institute for Space Aeronomy, Brussels, Belgium

Study of Earth's magnetopause based on the data from *Ampere/IRM* and *Cluster* spacecrafts

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**INDUSTRY  
EXPERIENCE**

July 2010 – Aug. 2012, *Analyst* at Nomura, Mumbai, Product development and maintenance for global equities trade monitoring tools

May–July 2007–2009, *Summer Traineeships* at IBM, Bangalore (2009), Omega Electronics, Jaipur (2008) and TATA Power, Mumbai (2007)