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**PERSONAL  
INFORMATION**

Email: hakim.kaustubh@gmail.com  
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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), Capturing the oxidation of silicon carbide in rocky exoplanetary interiors, *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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<b>SELECTED CONFERENCE TALKS</b>	<p>Apr. 2017, Formation and Dynamical Evolution of Exoplanets, Aspen, Colorado, USA</p> <p>Mar. 2017, the 48th Lunar and Planetary Science Conference, Houston, Texas, USA</p> <p>May 2016, the 71st Netherlands Astronomy Conference, Nunspeet, The Netherlands</p> <p>Apr. 2016, the 13th Netherlands Geology Congress, Veldhoven, The Netherlands</p> <p>May 2015, Exoplanet Conference, Lund, Sweden</p>
<b>SEMINAR</b>	<p>Apr. 2017, Department of Geophysics, University of Chicago, Chicago, Illinois, USA</p>
<b>ADVANCED TRAINING COURSES</b>	<p>July 2016, New Directions in Planet Formation, Lorentz Center, Leiden, The Netherlands</p> <p>Oct. 2015, Application of X-ray metrology for material science research, University of Twente, Enschede, The Netherlands</p> <p>Mar. 2015, the 45th Saas-Fee course on From Protoplanetary Disks to Planet Formation, Swiss Society for Astrophysics &amp; Astronomy, Les Diablerets, Switzerland</p>
<b>SERVICE/ ORGANIZATIONAL WORK</b>	<p>Sep. 2016 – Sep. 2017, <i>PhD Representative</i>, PhD-PostDoc Council, API Institute for Astronomy, University of Amsterdam</p> <p>May 2015, <i>Organizer</i>, Planetary and Exo-Planetary Science Network (NWO-PEPSci) PhD-PostDoc Meeting, University of Amsterdam</p> <p>Sep. 2012 – July 2014, <i>Student Representative</i>, Permanent Education Committee, MSc in Astronomy and Astrophysics, KU Leuven</p>
<b>SCIENCE COMMUNICATION/ OUTREACH</b>	<p>Mar. 2017, Participated in FameLab Amsterdam – a science communication workshop and competition</p> <p>Aug. 2016, Gave a science talk for bachelor students at University of Los Andes, Bogotá, Colombia</p> <p>Oct. 2014–2016, Volunteered during Public Science Day, University of Amsterdam, The Netherlands</p>
<b>FORMER RESEARCH EXPERIENCE</b>	<p>July – Aug. 2014, Nicolaus Copernicus Astronomical Center, Warsaw, Poland Data reduction pipeline of <i>Canada-France-Hawaii-Telescope</i> for <i>SuperWASP</i> exoplanets</p> <p>Sep. – Oct. 2013, Mercator Telescope, Roque de las Muchachos Observatory, La Palma, Spain Spectroscopic study of three <i>Kepler</i> planet candidates</p> <p>Mar. – June 2013, Belgian Institute for Space Aeronomy, Brussels, Belgium Study of Earth's magnetopause based on the data from <i>Ampte/IRM</i> and <i>Cluster</i> spacecrafts</p>
<b>INDUSTRY EXPERIENCE</b>	<p>July 2010 – Aug. 2012, <i>Analyst</i> at Nomura, Mumbai, Product development and maintenance for global equities trade monitoring tools</p> <p>May–July 2007–2009, <i>Summer Traineeships</i> at IBM, Bangalore (2009), Omega Electronics, Jaipur (2008) and TATA Power, Mumbai (2007)</p>