Curriculum Vitae

Personal Information

Last name:	Dhole
First name:	Pranjal
Email:	dhole.pranjal@gmail.com pranjal.dhole@inf.h-brs.de
Phone number:	+49 (0)1573 877 0032
Fields	Artificial Intelligence, Machine Learning, Evolutionary algorithms

Professional Experience

07.2017 - present **Research Assistant**
Hochschule Bonn-Rhein-Sieg, Grantham-Allee 20, 53757 Sankt Augustin
- Effiziente Transportalternativen (eTa) project
- Development of Vehicle Exterior (DoVE) project

09.2015 - 11.2016 **Doctoral Researcher**
Research Center caesar, Ludwig-Erhard-Allee 2, 53175, Bonn
- Matlab implementation of extended 3D-geomtric eye-tracking model.
- Skills - Computer Vision, 3D-Modelling, Machine Learning.

08.2014 - 09.2015 **Student Assistant**
BCGS office, Nussallee 14-16, D-53115 Bonn
- Organization of BCGS (Bonn) intranet system.
- Assistance in administrative tasks.

11.2013 - 03.2014 **Student Assistant**
University of Bonn, Nussallee 14-16, D-53115 Bonn
- Preparation of lecture notes for course 'Advanced atomic, molecular and optical physics' taught by Prof. Dr. Michael Köhl at University of Bonn during WS2013-14.

Education

03.2016 - present **Masters in Autonomous Systems**
Hochschule Bonn-Rhein-Sieg, Grantham-Allee 20, 53757 Sankt Augustin
- Development of neural network-based predictive model for aerodynamics of airfoils.
- Skills: Machine Learning, Computational Fluid Dynamics, Computer Vision.

10.2012 - 08.2015 **Graduated as M.Sc. in Physics**
University of Bonn, Nussallee 14-16, D-53115 Bonn
- Specialization in Quantum Field Theory, General Relativity and Cosmology.
- Masters thesis: Emergent Gravity and Cosmology: Thermodynamic perspective.

06.2009 - 05.2012 **Graduated as Bachelor of science**
Christ University, Hosur Road, Bhavani Nagar, Bengaluru, Karnataka 560029, India
- Triple major in Physics, Mathematics and Chemistry.

Teaching & Assistance

- Berechenbarkeit und Komplexität-II (WS2017-18)
- Introduction to Complexity, Randomization, Approximation and PAC Learning (SS2018)

IT Knowledge

- Programming languages - Python, MatLab, C++.
- Development environments - Spyder, Eclipse, Jupyter Notebook.
- Web development - HTML, CSS, jQuery, JavaScript.
- Operating systems - Linux (Ubuntu, Debian-based), Windows(7, 8, 10).
- Media applications - LaTeX, MS Office (Word, Excel, PowerPoint), MS Visual Basic.
- Algebra - Mathematica.
- Other - ROS, Git, Pytorch Deep Learning Framework, TensorFlow.

Languages

- English - Fluent
- German - Limited working proficiency (B1.1)
- Hindi - Native
- Marathi - Native

Talks and Invited Seminars

- Masters Colloquium: 'Emergent Gravity and Cosmology: Thermodynamic Perspective', University of Bonn, May 22, 2015.
- Invited Talk - 'Emergent Gravity - Thermodynamic Perspective', BCGS Weekend Seminar at the Physikzentrum, Bad Honnef, Germany, April 19, 2015.

Awards, Grants and Prizes

- Scholarship €6,000 in total, Stiftung caesar, for period of 6 months starting Sept., 2015.
- 2nd place in Convergence – Inter-collegiate Mathematics fest 2011.
- 2nd place in Eureka – Intercollegiate Physics Festival 2011.
- 3rd place in Chemicus – Intercollegiate chemistry fest in crosswords (B. Sc. 5th Semester) 2011.
- 2nd place in Chemicus – Intercollegiate chemistry fest in 20 questions (B. Sc. 5th Semester) 2011.
- 2nd place in Intercollegiate Mathematics Quiz (B. Sc. 3rd semester) 2010.
- 1st place in Intercollegiate Mathematics Quiz at NMKRV (B. Sc. 3rd Semester) 2010.
- 2nd place in Intra-collegiate Mathematics Quiz (B. Sc. 2nd Semester) 2010.
- 1st place in Intra-collegiate Mathematics Mega Event (B. Sc. 2nd Semester) 2010.
- 3rd place in Inter-collegiate Science Quiz (B. Sc. 1st semester) 2009.