

CURRICULUM VITAE

»»» Personal Information

- » **Last name:** Dhole
- » **First name:** Pranjal
- » **Email:** dhole.pranjal@gmail.com, pranjal.dhole@inf.h-brs.de
- » **Employment status:** Research Assistant at Hochschule Bonn-Rhein-Sieg
- » **Fields** Machine Learning, Computer Vision, Mathematical Modelling
- » **Prefers:** Python, Matlab, Git, C++



»»» Professional Experience

- 07.2017 - present **Research Assistant**
Hochschule Bonn-Rhein-Sieg, Grantham-Allee 20, 53757 Sankt Augustin
 - » Machine-learning-based modelling of fluid-flow around 3D shapes.
 - » Teaching assistant for Berechenbarkeit und Komplexität-II; Introduction to Complexity, Randomization, Approximation and PAC Learning.
- 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.

»»» 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 - L^AT_EX, 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.

»»» Reference

Dr. Idil Kokal
Managing Director, Bonn-Cologne Graduate School
HISKP, Universität Bonn
Nussallee 14-16, D-53115 Bonn, Germany
Tel: +49 (0)228 73-4832 (office)
E-mail: ikokal@uni-bonn.de

Dr. David Greenberg
Scientist, Dept. of Behaviour and Brain Organization
Research center caesar
Ludwig-Erhard-Allee 2, 53175 Bonn, Germany
Phone: +49 (0)228 9656-303 (office)
E-mail: david.greenberg@caesar.de