

# PRANJAL DHOLE (M.Sc.) | RESUME

## »»» Personal Information

- » **Status:** Research Assistant at Hochschule Bonn-Rhein-Sieg
- » **Fields** Machine Learning, Computer Vision, Mathematical Modelling
- » **Prefers:** Python, Matlab, Git, C++
- » **Email:** [dhole.pranjal@gmail.com](mailto:dhole.pranjal@gmail.com), [pranjal.dhole@inf.h-brs.de](mailto:pranjal.dhole@inf.h-brs.de)



## »»» Employment history

- 07.2017 - present    **Research Assistant**    **Hochschule Bonn-Rhein-Sieg**
  - » Machine-learning-based modelling of fluid-flow around 3D shapes (Development of Vehicle Exteriors project).
- 10.2017 - 02.2018    **Teaching Assistant**    **Hochschule Bonn-Rhein-Sieg**
  - » Teaching assistant for Computability and Complexity II (WS-2017/18).
- 09.2015 - 11.2016    **Doctoral Researcher**    **Research Center caesar**
  - » Development of extended 3D-geomtric eye-tracking model.
  - » Skills - Computer Vision, 3D modelling, machine learning
- 08.2014 - 09.2015    **Student Assistant**    **BCGS, Bonn office**
  - » Organization of the intranet system
  - » Assistance in administrative tasks
- 11.2013 - 03.2014    **Student Assistant**    **University of 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**
  - » 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**
  - » Masters thesis: Emergent Gravity and Cosmology: Thermodynamic perspective (Slides available at [www.thp.uni-koeln.de/gravitation/mitarbeiter/dhole.html](http://www.thp.uni-koeln.de/gravitation/mitarbeiter/dhole.html).)
- 06.2009 - 05.2012    **Graduated as Bachelor of science**    **Christ University**
  - » Triple major in Physics, Mathematics and Chemistry

## »»» Computer Skills

Programming languages	Python, MatLab, C++, ROS.
Web development	HTML, CSS, jQuery, JavaScript.
Algebra	Mathematica.
Media	L <sup>A</sup> T <sub>E</sub> X, Microsoft Visual Basic, Adobe Illustrator.
Operating systems	Linux, Windows.

## »»» Languages

English	Fluent	German	limited working proficiency (B1.1)
Marathi	Native language	Hindi	Native language

## »»» 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

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