

# PRANJAL DHOLE (M.Sc.) | RESUME

## »»» Personal Information

- » **Status:** Research Assistant at Hochschule Bonn-Rhein-Sieg
- » **Fields** Computer vision, Machine learning, 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).
- » 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

- » Research and development project: I am currently involved in developing neural network-based predictive model for aerodynamic profiles of NACA airfoils.

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                    |

## »»» Teaching

- 'Berechenbarkeit und Komplexität-II', with Prof. Dr. Alexander Asteroth, Hochschule Bonn-Rhein-Sieg, WS-2017/18.

## »»» 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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