

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, 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 (WS2017-18).

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** Bonn-Cologne Graduate School 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.
- » Computer Vision project: I am currently working on Rubik's cube detection and its pose estimation using geometric modelling.

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.)

10.2012 - 08.2015 **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 ^A T _E 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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