

*Curriculum Vitae*

# RAVI PRAKASH

**Date of Birth** : 3<sup>rd</sup> February 1984.

**Nationality** : Indian.

**Passport No.** : H1415686

**Residency** : Chilean.

**R.U.T. No.** : 24.484.315-8

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## RESEARCH INTERESTS

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I work in the areas of **homogenization of optimal control and optimal design problems** arising in the context of **partial differential equations** with a domain having oscillating boundary. I am interested in developing theory and numerical aspects of **homogenization and optimization (optimal control theory/controllability/optimal shape design/optimal structural design/topology optimization and its application in inverse problems)** with the help of **calculus of variation techniques, operator theory and finite element method** etc. having application in **Mechanical Engineering** and **Fluid Flow** to name a few.

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## Jobs/Positions

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- **Assistant Professor**

*Academic Session: April 2016 - Till Date Department of Mathematics, University of Concepcion, Concepcion, Chile.*

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## Reaserch Experience

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- **Post Doctoral Fellow**

*Academic Session: 1<sup>st</sup> November 2015 - 10<sup>th</sup> April 2016  
LNCC/MCT, Petropolis, Brazil.*

- **Post Doctoral Fellow**

*Academic Session: 1<sup>st</sup> November 2013 - 31<sup>st</sup> October 2015  
FONDECYT Postdoctoral Fellow, Concepcion, Chile.*

- **Post Doctoral Fellow**

*Academic Session: 1<sup>st</sup> August 2013 – 31<sup>st</sup> December 2013*

*Indo-French Center for Applied Mathematics (IFCAM), Marseille, France.*

- **Post Doctoral Fellow**

*Academic Session: 30<sup>th</sup> May 2013 -31<sup>st</sup> July 2013*

*Tata Institute of Fundamental Research-Center for Applicable Mathematics,  
Bangalore, India.*

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EDUCATION

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- **Integrated Ph.D. in Mathematics**

*Academic Session: 2006-2013*

Indian Institute of Science, Bangalore, Karnataka, India.

- **B. Sc. (Honors) in Mathematics**

*Academic Session: 2003-2006*

Banaras Hindu University, Varanasi, Uttar Pradesh, India.

- **Intermediate (Science), *B.I.E.C.***

*Academic Session: 1998-2000*

C. M. Science College, Darbhanga, Bihar, India.

- **Secondary School Examination, *B.S.E.B.***

*Year Passed: 1998*

Sarvodaya High School, Darbhanga, Bihar, India.

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AWARDS

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1. **Late Prof. Venkatachaliyengar scholarship (Additional Scholarship)**, Year 2012-2013.
2. **Postdoctoral Fellowship Awarded by National Board of Higher Mathematics**, Year 2013.

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TECHNICAL SKILLS

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1. **Programming Languages** : ANSI C/C++, MATLAB.

2. **Operating System** : Windows 98/XP, SCO UNIX, Linux, Mac OS X.

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COMMUNICATION LANGUAGES

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I am proficient in **Hindi, English** and **Spanish**. I can also speak and write basic **Portuguese**.

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HOBBIES AND OTHER INTERESTS

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Outdoor Sports, Traveling, Gym Workout, Cooking, Learning new languages.