Curriculum Vitae

Badri Krishnan

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Contact and personal information

Present affiliation Institute for Mathematics, Astrophysics and Particle Physics
Radboud University
Nijmegen, The Netherlands
email: badri.krishnan@ru.nl
Phone: +49-511-762 17134
Fax: +49-511-762 2784

Employment

Professor April 2021 - Present
Full Professor, Chair of "Fundamental Physics from Strong Gravity"
Institute for Mathematics, Astrophysics and Particle Physics
Radboud University
Nijmegen, The Netherlands

Senior Staff Scientist (W2) 2010 - March 2021
Group leader – Compact binary coalescence group
Division of Observational Relativity & Cosmology
Max Planck Institute for Gravitational Physics (Albert Einstein Institute)
Hannover, Germany

Staff Scientist 2006 - 2010
Division of Astrophysical Relativity
Max Planck Institute for Gravitational Physics (Albert Einstein Institute)
Potsdam, Germany

Postdoctoral Associate 2002 - 2006
Division of Astrophysical Relativity
Max Planck Institute for Gravitational Physics (Albert Einstein Institute)
Potsdam, Germany

Graduate Research Assistant 1997-2002
Center for Gravitational Physics and Geometry
Pennsylvania State University
University Park, USA

Education

Ph.D in Physics 1997 - 2002
Department of Physics
Pennsylvania State University, University Park, USA
Supervisor: Abhay Ashtekar
Thesis: Isolated Horizons in Numerical Relativity

M.Sc. in Physics (Integrated) 1992 - 1997
Department of Physics
Indian Institute of Technology, Kanpur, India

Teaching

Masters Course "Gravity & The Cosmos", Gravity+ program, Radboud University (2021, 2022)

Masters Course "Gravitational Wave Astronomy: Statistics & Data Analysis", Gravity+ Program, Radboud University (2021)

Masters Course "Foundations and Frontiers of Gravitational Wave Astronomy", Gravity+ Program, Radboud University (2021)

Lectures on Gravitational Wave Astronomy, *Gravitational Waves: New Challenges and Opportunities*, TUBITAK Research Institute for Fundamental Sciences, Gebze, Turkey (2019)

Lectures on Gravitational Wave Astronomy, *The Atlantic General Relativity Meeting*, Fredericton, New Brunswick, Canada (2019)

Lecturer, *IV José Plínio Baptista School on Cosmology, Gravitational Waves*, Pedra Azul - Domingos Martins, ES, Brazil (2018)

Lecturer, Gravitational Physics and Cosmology, 2013, 2017 & 2019, Leibniz University Hannover

Lectures on Gravitational Wave Astrophysics, School for Astroparticle Physics, School of the Erlangen Centre for Astroparticle Physics and the Helmholtz Alliance for Astroparticle Physics, Obertrubach, Germany (2017)

Lectures on gravitational wave data analysis at the International Max-Planck Research School on Gravitational-Wave Astronomy, 2009, 2010 & 2011.

Teaching Assistant at the Physics department, Pennsylvania State University (1997 - 2002).

Instructor, Physics department, Pennsylvania State University (Summer Undergraduate Courses, 1999 - 2001)

Awards

2017 Bruno Rossi Prize of the American Astronomical Society (shared with the LIGO Scientific Collaboration).

2017 Group Achievement Award of the Royal Astronomical Society (shared with the LIGO Scientific Collaboration).

2017 Princess of Asturias Award (shared with the LIGO Scientific Collaboration).

2016 Breakthrough Prize in Fundamental Physics (shared with the LIGO Scientific Collaboration).

2016 Gruber Cosmology Prize (shared with the LIGO Scientific Collaboration).

2005 Burgen Scholar of the Academia Europaea.

2000-2001 Braddock and Roberts Fellow of the Pennsylvania State University.

2000 Prize in Physical Sciences at Penn State Graduate Exhibition.

1999 Penn State Physics Department Teaching Award.

1997-1998 Braddock Fellow of the Pennsylvania State University.

Graduate students supervised

Current Students: Stephanie Brown, Stamatis Vretinaris, Ariadna Ribes Metideri

Stephanie Brown (2019-2023), *Using Gravitational Waves to Study Neutron Stars in General Relativity and Alternative Theories of Gravity*, Currently: Postdoc at the Albert Einstein Institute, Hannover, Germany.

Julian Westerweck (2018-2022), *Observational tests of fundamental physics from gravitational wave detections*, Currently: Postdoc at the Albert Einstein Institute, Hannover, Germany.

Daniel Pook-Kolb (2018-2020), *Dynamical horizons in binary black hole mergers*, Currently: Postdoc at Radboud University, Netherlands.

Miriam Cabero-Müller (2014 - 2018), *Gravitational Wave Astronomy with conoact binary coalescences: From blip glitches to the black hole area increase law*, Currently: Postdoc at The University of British Columbia, Vancouver, BC, Canada.

Nathaniel Indik (2013 - 2018), *Optimal Template Placement for Searches of Gravitational waves from Precessing Compact Binary Coalescences*, Currently: Programmer at the National Oceanic and Atmospheric Administration, OK, USA.

Tito dal Canton (2012 - 2016), *Efficient Searches for spinning compact binaries with advanced gravitational-wave observatories*, Currently: Researcher at Laboratoire de l'Accélérateur Linéaire, Universite Parus-Sud, Orsay, France.

Frank Ohme (2008 - 2012), *Bridging the gap between Post-Newtonian theory and Numerical Relativity in Gravitational Wave Data Analysis*, Currently: Max Planck Independent Group Leader, AEI Hannover, Germany.

Lucia Santamaria (2007 - 2010), *Coalescence of black hole binaries: From theoretical source models to applications in gravitational wave astronomy*, Currently: Software Programmer, Berlin, Germany.

Michael Jasiulek (2007 - 2012), *Novel geometric methods in numerical relativity for isometric embeddings, quasi-local spin and the wave equation*, Currently: Postdoc, Max-Born-Institut for Non-Linear Optics and Short Pulse Spectroscopy, Berlin.