

Martin Aaron Bucher

Date and place of birth: 20 January 1964, Hamburg, Germany

Nationality: France, United States

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Education:

September 1990, Ph.D. Physics, California Institute of Technology (1987-90)
"On the theory of non-Abelian vortices and cosmic strings". Thesis supervisor: John Preskill;
Thesis jury: B. Barrish, H.D. Politzer and J. Preskill

August 1986, B.A. Physics, University of California at Berkeley (1984-86)

Yale College, Yale University, New Haven, Connecticut
(first two years of undergraduate program) (1982-84)

1990-1991, Hastings College of the Law, University of California, San Francisco, California
(first year of three-year Juris Doctor Program) (1990-1991)

Employment:

Directeur de recherche au CNRS (2004 - present) (DR1 since 2016)
Laboratoire APC (Astroparticule et Cosmologie), Université Paris 7, Paris, France
(from 2004-2008 at Laboratoire de Physique Théorique, Université Paris-Sud, Orsay)

Fractional Research Professor of Mathematics (since 2018)
Department of Math, Statistics, and Computer Science
University of KwaZulu-Natal, Durban, South Africa

Honorary Professor of Mathematics (since 2011-2017)
Department of Math, Statistics, and Computer Science
University of KwaZulu-Natal, Durban, South Africa

SW Hawking Fellow of Mathematical Sciences (2000-2004)
College Lecturer and Staff Fellow
Trinity Hall, University of Cambridge, Cambridge, England

Postdoctoral researcher (1998-2000)
Relativity Group, DAMTP
University of Cambridge, Cambridge, England

Postdoctoral researcher, 1996-1998
CN Yang Institute of Theoretical Physics, SUNY, Stony Brook, New York

Research staff (with N Turok), 1994-1996,
Physics Department, Princeton University, Princeton, New Jersey

Postdoctoral researcher (with F Wilczek), 1992-1994
Institute for Advanced Study, Princeton, New Jersey

Awards:

Elected Member, Academy of Science of South Africa (2019)
EPS Giuseppe and Vanna Cocconi Prize (2019, awarded to Planck Team)
Japanese Society for the Promotion of Science Fellowship (2019)
Royal Astronomical Society Astronomy Group Achievement Award (2018, Planck Team)
Gruber Prize in Cosmology (2018, awarded to Planck Team)
Stephen Hawking Fellowship in Mathematical Sciences (2000)

Collaborations and committees:

Member, SKA Cosmology SWG (since 2019)
Member, JAXA (Japanese Space Agency) LiteBIRD Joint Study Group (since 2015)
LiteBIRD External Collaborator (since 2015)
Member, HIRAX Collaboration
Member of the Planck HFI Core Team; Planck Scientist
HFI coordinator of the Planck Working Group: "Cosmological Models and Parameters"
Member of PLANCK Non-Gaussianity Working Group
Co-Leader of 2013 and 2015 Planck Inflation papers (second most cited paper from each Planck Collaboration release)
Coordinator, oScience Case Working Group, B-Pol Collaboration (ESA Cosmic Vision M class proposal, 2007)
Coordinator of the Science Case, Working Group of the CORe Collaboration (ESA Cosmic Vision M class proposal, 2011)
Elected member of lab council LPT, Orsay (2005-2007)
PI of the project ANR (2005-2008), "Valorisation et interprétation des données de la mission spatiale PLANCK" (involving IAP, IAS, LAL and LPT) (Budget 350 K euros)

Languages:

English, French, Spanish , German, Japanese (basic notions)

Publications:

168 publications, H-index: 70 according to SLAC Inspire; 68 according to World of Science