

CURRICULUM VITAE

Surname: Harko

Given names: Tiberiu

Home Address: str. Plopilor nr. 6, ap. 5, 400379 Cluj-Napoca, Romania

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E-mail address: t.harko@ucl.ac.uk; tiberiu.harko@aira.astro.ro

Born: June 26, 1953, Cluj, Romania

Sex: Male

Citizenship: Romanian

Marital status: Married

Education:

B.Sc. (Physics) 1976, Babes-Bolyai University, Cluj, Romania.

PhD 2001, University of Hong Kong, Hong Kong

Field: Theoretical Astrophysics, Supervisor: Prof. K.S. Cheng

Work experience:

January 1, 2017, to present, Visiting Professor, School of Physics, Sun Yat Sen University, Guangzhou, P. R. China

February 1, 2015, to present, Professor (Associate), Department of Physics, Babes-Bolyai University, Cluj-Napoca, Romania

October 2013 to present, Professor (Full), Yat Sen School, Sun Yat Sen University, Guangzhou, P. R. China

October 2012 to March 2020, Honorary and Senior Honorary Research Associate, Department of Mathematics, University College London, Gower Street, London WC1E 6BT, United Kingdom

October 2004 to October 2012, Research Assistant Professor and Honorary Associate Professor, Department of Physics, The University of Hong Kong, Pokfulam Road, Hong Kong

October 2001 to October 2004

Post-Doctoral Fellow, Department of Physics, The University of Hong Kong, Hong Kong, Pokfulam Road

July 1998 to August 2001

PHD Student, Department of Physics, The University of Hong Kong, Hong Kong – Field: Theoretical Astrophysics, Supervisor: Prof. K.S. Cheng

March 1986 to July 1998 Research Scientist, “I. Kiricutza” Institute of the Romanian Academy of Sciences, str. Republicii nr. 34-36, Cluj-Napoca, Romania

March 1981 to March 1986, Research scientist, Institute of Mining Research, str. T. Vladimirescu 18, Cluj - Napoca, Romania

September 1977 to March 1981, Full time teacher, High-School, str. Zefirului nr.1, Bistritza, Romania

University teaching experience:

In the University of Hong Kong between 2004 and 2012 I did teach the following courses:

General Relativity - 1 semester course

Cosmology - 1 semester course

Astrophysics - 1 semester course

Stellar astrophysics - 1 semester course

The structure of the scientific revolutions - 1 semester course

In the Sun Yat Sen University, Guangzhou, China I presently teach

General Relativity and Cosmology - 1 semester course

In the Babes-Bolyai University Cluj-Napoca, Romania I did teach

Astrophysics and Cosmology - 1 semester course

Research interests:

General Relativity, Cosmological Models, Modified gravity, Bose-Einstein condensation of dark matter, Theoretical Astrophysics, Stellar Interior Solutions to Einstein Field Equation, Systems of Non-Linear Partial Differential Equations, Stability of systems of Ordinary Differential Equations.

Media coverage. My work has received media coverage in the New Scientists, Forbes Magazine, and USA Today.

Citations:

According to Google Scholar my papers have received around 13000 citations up to May 2021.

Research Grants

1. *General Research Fund Grants*

a) 2006-2009 Astrophysical constraints on the multi-dimensional space-time models, HKU 7027/06P, awarded 250,000 HKD

b) 2007-2010 High energy radiation, accretion and cooling of strange stars, HKU 702507P awarded 267,000 HKD

c) 2008-2011 Brane world cosmology: post-inflationary reheating and gravitational lensing, HKU 701808P, awarded 293,700 HKD

2. Seed Funding Programme for Basic Research

a) 2004-2005 Observational tests of the brane world cosmological models, 200411159012 awarded 120,000 HKD

b) 2005-2006 Radiation processes in the electrosphere of bare strange stars, 200511159091, awarded 80000 HKD

c) 2006-2007 Gravitational radiation from compact binary systems, 200611159051, awarded 80,000 HKD

d) 2007-2008 Dark energy models in modified theories of gravity, 200711159003, awarded 50,000 HKD

3. URC/CRCG - Conference Grants for Teaching Staff

2008 Astrophysical implications of the hadron-quark phase transitions in neutron stars, 8th Pacific Rim Conference on Stellar Astrophysics, 200703170468, awarded 13,500 HKD

2009 Can stellar mass black holes be quark stars?, 12 Marcel Grossmann Meeting, Paris, awarded 16,500 HKD

2012 Astrophysical signatures of quark stars in the CFL phase, 13 Marcel Grossmann Meeting, Stockholm, awarded 16,500 HKD

Consultant in Research Projects

I was a consultant of the following FCT/CERN Projects:

CERN/FP/116398/2010,

CERN/FP/109381/2009, and

CERN/FP/123615/2011,

respectively.

Reviewer for scientific journals

I review manuscripts submitted to: Physical Review Letters, Physical Review D, The European Physical Journal C, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, JCAP, Physics of the Dark Universe etc.

Citations: According to Google Scholar my papers have received around 13,000 citations up to June 2021.