

Geza Kovacs

Main fields of research:

Extrasolar planets: transit search and analysis; Nonlinear stellar pulsations: numerical modeling

Education:

1970–1975: M.Sc. in physics and astronomy, Eötvös Loránd University, Budapest
1981: Ph.D. degree in astronomy, Eötvös Loránd University.
Title: “The Fourier Analysis and Its Application in the Research of Variable Stars”. Rank: summa cum laude
1995: D.Sc. title, Hungarian Academy of Sciences.
Title: “Nonlinear Stellar Pulsations”

Employment:

1975– 2016: research fellow, Konkoly Observatory, Budapest
2016– : professor emeritus, Konkoly Observatory, Budapest

Postdoctoral and other positions:

1980, 4 months: Copernicus Astronomical Center Warsaw
– visiting astronomer
1984–1986: Department of Physics, University of Florida
1988–1989: Department of Physics, University of Florida
1990–1992: Department of Physics, University of Florida
– postdoctoral associate
1998, 1 month: IGPP, Lawrence Livermore Laboratory
– consultant
2012–2014: Department of Physics and Astrophysics, University of North Dakota
–visiting professor (Oliver L. Benediktson Endowed Chair)

Memberships in international scientific organizations:

1982–present: I.A.U.
1990–present: E.A.S.
1997–2002: Astronomy & Astrophysics
–member of the Board of Directors
2009–2010: ETSRC (European Telescope Strategy Review Committee)
–panel member
2010–2017: ISRN (International Scholarly Research Network)
–Editorial Board
2015–2018: OPTICON (Optical Infrared Coordination Network) TAC
–panel member
2018– : Advances in Astronomy
–Editorial Board

SOC memberships:

- 1987: “Multimode Stellar ...”, workshop, Budapest — LOC Chairman
 - 1988: I.A.U. Coll. No. 111, Lincoln, NB
 - 1995: I.A.U. Coll. No. 155, Cape Town
 - 1997: “A Half Century of Stellar Pulsation ...”, Los Alamos
 - 1997: Joint Discussion No. 24, I.A.U. G.A. No. 23, Kyoto
 - 1999: I.A.U. Coll. No. 176, Budapest — LOC Chairman
 - 2001: “ ω Centauri: A unique ...”, conference, Cambridge, GB
-

Invited talks at conferences and workshops:

- 1992: I.A.U. Coll. No. 134, Mito, Japan
 - 1992: I.A.U. Coll. No. 139, Victoria, BC, Canada
 - 1993: Eight Annual Workshop in Nonlinear Astr., Gainesville, Florida
 - 2001: I.A.U. Coll. No. 185
 - 2009: “Stellar Pulsation: Challenges for Theory and Observations”, Santa Fe, NM
 - 2015: “Networking Qatar Exoplanet Research”, workshop, Doha, Qatar
 - 2015: “High-precision studies of RR Lyrae stars”, workshop, Visegrád, Hungary
 - 2016: “Wide-field Variability Surveys ...”, San Pedro de Atacama, Chile
-

Contributed talks:

- 1989: “Numerical Modelling of ...”, NATO workshop, Les Arcs, France
 - 1996: 12-th IAP Coll., Paris, France
 - 1997: “A Half-Century of ...”, conference, Los Alamos, USA
 - 1997: “Views on ...”, workshop, Sant Agata, Italy
 - 2001: “ ω Centauri: A unique ...”, conference, Cambridge, UK
 - 2005: “Stellar Pulsation and Evolution”, conference, Rome, Italy
 - 2006: “Transiting Extrasolar Planets ...”, conference, Heidelberg, Germany
 - 2008: “Stellar Pulsation: Challenges for ...”, conference, Wroclaw, Poland
 - 2017: “Revival of the Classical Pulsators ...”, workshop, Niepolomice, Poland
 - 2019: “Single, Shallow & Strange ...”, workshop, Coventry, UK
 - 2019: “RRL/Cep 2019 - Frontiers of ...”, workshop, Cloudcroft, NM, USA
 - 2019: “Exoplanet Vision 2050 ...”, workshop, Budapest, Hungary
-

Edited proceedings:

- 1988: Multimode Stellar Pulsations (Konkoly Observatory – Kultúra); Co-editors:
L. Szabados and B. Szeidl
-

Scientometric data¹ (as of November 17, 2019):

Total number of independent citations = 4770
Number of journal publications = 110
Number of conference papers = 43
Cumulative impact factor = 554
Hirsch index = 37

Selected papers:

Kovacs, G., 1981, *Ap&SS*, **78**, 175; FREQUENCY SHIFT IN FOURIER ANALYSIS
Buchler, J. R., Kovacs, G., 1987, *ApJ*, **320**, L57; PERIOD DOUBLING BIFUR-
CATIONS AND CHAOS IN W VIRGINIS MODELS
Jurcsik, J., Kovacs, G., 1996, *A&A*, **312**, 111; DETERMINATION OF [Fe/H]
FROM THE LIGHT CURVES OF RR LYRAE STARS
Kovacs, G., 2000, *A&A*, 363, L1; THE DISTANCE MODULUS OF THE LARGE
MAGELLANIC CLOUD BASED ON DOUBLE-MODE RR LYRAE STARS
Kovacs, G., Walker, A. R., 2001, *A&A*, **371**, 579; EMPIRICAL RELATIONS FOR
CLUSTER RR LYRAE STARS REVISITED
Kovacs, G., Zucker, S., Mazeh, T., 2002, *A&A*, **391**, 369; A BOX-FITTING
ALGORITHM IN THE SEARCH FOR PERIODIC TRANSITS
Kovacs, G., Bakos, G., Noyes, R. W., 2005, *MNRAS*, **356**, 557; A TREND
FILTERING ALGORITHM FOR WIDE-FIELD VARIABILITY SURVEYS
Bakos, G. A., Kovacs, G., Torres, G. et al., 2007, *ApJ*, **670**, 826; HD 147506B:
A SUPERMASSIVE PLANET IN AN ECCENTRIC ORBIT TRANSITING A
BRIGHT STAR
Kovacs, G., Bakos, G. A., Hartman, J. D. et al., 2010, *ApJ*, **724**, 866; HAT-P-
15B: A 10.9 DAY EXTRASOLAR PLANET TRANSITING A SOLAR-TYPE
STAR
Kovacs, G., 2018, *A&A*, **614**, L4; ARE ALL RR LYRAE STARS MODULATED?

¹Notes:

- Excluding citations by anyone on the author list
- Including citations in arXiv
- Without citations in arXiv: 4636