

Position

Project Professor, Ph.D., Graduate School of Mathematical Sciences, The University of Tokyo,

Professor, Department of Mathematics, Faculty of Science, Zonguldak Bülent Ecevit University, Zonguldak 67100, Türkiye

Honorary Member of Academy of Romanian Scientists (Bucharest Romania)
Correspondence member of Accademia Peloritana dei Pericolanti (Messina, Italy)

Education

March 1981; graduated with the degree of Bachelor of Science from The University March

1983; obtained the degree of Master of Science from The University of Tokyo

March 1988; received Ph. D. from the University of Tokyo for the thesis entitled “Inverse Spectral Problem for Systems of Ordinary Differential Equations”

Occupation

April 1985 - March 1990; Research Associate at the Department of Mathematics, College of Arts and Sciences, The University of Tokyo

April 1990 - March 2010; Associate Professor at the University of Tokyo

April 2010 - ; Professor at Graduate School of Mathematical Sciences, The University of Tokyo 2024 - : Professor at Zonguldak Bülent Ecevit University,

April 2024 - : Project Professor at Graduate School of Mathematical Sciences, The University of Tokyo

Research Topics

inverse problems for partial differential equations, fractional partial differential equations, industrial mathematics

Every year I invited about 30 colleagues outside of Japan at my dept. and worked with them (before the pandemic).

Publications

I have published 401 papers (peer-reviewed).

Total Citations 8,153 in 3,302 publications by Mathematical Reviews Citation (American Mathematical Society: date 28 March 2025).

Long academic stay places (longer than one month)

France Université de Franche-Comté, Besançon (France) as Maître de Conférence

Université de Metz (France) as Professeur Invité

Université de Strasbourg (France) as Professeur Invité

Université de Marseille (France) as Professeur Invité

Italy Sapienza Università di Roma (visiting professor 2016, 2019, 2022, 2023, 2024),

Università degli Studi di Parma (visiting professor 2019),

Università degli Studi di Roma “Tor Vergata” (visiting professor 2021)

Professore visitatore at Istituto Nazionale di Alta Matematica Francesco Severi (INdAM)

Germany Technische Universität München (Germany) as Alexander von Humboldt Fellow Freie Universität Berlin (Germany) as guest researcher,

Weierstrass Institute für Angewandte Analysis und Stochastik in Berlin (Germany) as guest researcher

Grants (i) Grant-in-Aid for Scientific Research (S) of Japan Society for the Promotion of Science “Renovating solutions and applications of coefficient inverse problems for partial differential equations” Term of Project: FY2015 - 2019, Budget Allocation: 40,000 Thousand JPY
(ii) principal investigator: Japan-France Bilateral Joint Research (JSPS-CNRS) “Unified studies of the control theory and inverse problems” 2010-2012
(iii) principal investigator: Asian 3 Countries Foresight Program “Modeling and computation of applied inverse problems” 2014-2019

Honors

- Honorary professor of East China Institute of Technology (China)
- Guest Professor of Southeast University (Nanjing, China)
- Emeritus Professor at The University of Tokyo

Awards

- The Gold Medal 2012 for Great Contributions in Mathematics, Sobolev Institute of Mathematics of the Siberian Branch of the Russian Academy of Sciences,
- the 2013 JMAA Ames Awards in Pure and Applied Mathematics
- the 2014 William F. Ames JMAA Best Paper Award
- 2020 James S. W. Wong Prize by Journal of Mathematical Analysis and Applications
- The 2020 Eurasian Association on Inverse Problems (EAIP) Award
- 2022 Mathematics Best Paper Award of MDPI
- 2023 Book Prize of Unione Matematica Italiana (the Italian Mathematical Union) for “Introduction to Inverse Problems for Evolution Equations: Stability and Uniqueness by Carleman Estimates”, 311 pp.