

## **YAMAMOTO, Masahiro**

### **Position**

Professor, Ph.D.

Department of Mathematical Sciences, the University of Tokyo

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### **Date and place of birth**

17 August, 1958, Tokyo

### **Nationality**

Japanese, Passport number : TR7423145 (till 11 January 2027)

### **Marital status**

married

### **Education**

1965–1977 ; school (12 years)

April 1977 ; entered the University of Tokyo

March 1981 ; graduated with the degree of Bachelor of Science

March 1983 ; obtained the degree of Master of Science from the University of Tokyo (supervisor: Prof. Hiroshi Fujita)

March 1988 ; received Ph. D. from the University of Tokyo for a thesis entitled "Inverse Spectral Problem for Systems of Ordinary Differential Equations" (supervisor: Prof. Hiroshi Fujita)

### **Occupation**

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

April 1990 – March 1992; Associate Professor at the Department of Mathematics, College of Arts and Sciences, the University of Tokyo

April 1992 – March 2010; Associate Professor at the Department of Mathematical Sciences, the University of Tokyo

April 2010 – ; Professor at the Department of Mathematical Sciences, the University of Tokyo

### **Long academic stay places (longer than one month)**

the Research Institute for Mathematical Sciences of Kyoto University

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

Université de Franche-Comté, Besançon (France) as 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

### **Short academic stay places**

**Bulgaria:** Bulgarian Academy of Sciences, University of Plovdiv

**China :** Fudan University, Shanghai University, Peking University, Zhejiang University, South-

East University Nanjing, East China Institute of Technology, The Chinese University of Hong Kong, The City University of Hong Kong, Southeast University Nanjing

**France :** Université Montpellier, Université Paris XI, École Polytechnique, Université de Versailles, Université Grenoble, INRIA

**Germany:** Technische Universität Chemnitz-Zwickau, Technische Universität Berlin, Universität Frankfurt, Technische Universität Bergakademie Freiberg, Universität Göttingen, Universität Hamburg, Universität Gesamt-Hochschule Siegen, Universität Potsdam

**Austria:** Universität Linz, Universität Graz

**England:** Brunel University, Bath University, University of Oxford

**Italy:** Università Milano, Politecnico di Milano, University of Catania

**Switzerland:** École Polytechnique Fédérale de Lausanne

**Greece:** Athens University of Economics, University of Crete

**USA :** Humboldt State University, University of Delaware, UCLA, University of Colorado, Boulder, University of Minnesota

**Russia:** Sobolev Institute of Mathematics of Siberian Branch of Russian Academy of Sciences (Novosibirsk), Moscow State University, Euler Institute (St. Petersburg)

**Korea:** Pusan National University, Masan University, Seoul National University, Yonsei University

**Vietnam:** HoChiMinh City University, Polytecnic University of Hanoi Institute of Applied Mechanics (HoChiMinh City)

## **Research Topics**

1. coefficient inverse problems by Carleman estimate
2. inverse boundary value problems
3. determination of shapes
4. fractional partial differential equations
5. optimal control

## **Industrial partners with joint research projects**

1. Nippon Steel & Sumitomo Metal
2. Kao Corporation
3. Nikon Corporation
4. Towa Seiki Corporation

## **List of patents**

- Application number: 2000-344334 (application date: 2000/11/10)  
Publicity number: 2002-148073 (publicity date: 2002/05/22).
- Application number: 2004-297778 (application date: 2004/10/12)  
Publicity number: 2005-134383 (publicity date: 2005/5/26)
- Application number: 2005-258822 (application date: 2005/9/7)
- Application number: 2006-239413 (application date: 2006/9/4)

- Application number: 2006-239412 (application date: 2006/9/4)
- Application number: 2007-240052 (application date: 2007/9/14)
- Application number: 2007-240053 (application date: 2007/9/14)
- Application number: 2008-037965 (application date: 2008/2/19)
- International Patent Number:PCT/JP2009/062035 (application date: 2009/7/1),  
international publicity Number:WO/2010/001925 (publicity date: 2010/7/1)
- Application number: 2010-111255 (application date: 2010/5/13)
- Application number: 2010-120874 (application date: 2010/5/26)

### **Editors**

1. Editorial board "Journal of Inverse and Ill-posed Problems"
2. Editorial board of "Numerical Methods and Programming"
3. Editorial board of "Journal of the China Society of Industrial and Applied Mathematics (J. of Chinese SIAM)"
4. "Editorial board of "Applicable Analysis"
5. Board of "The Journal of World Mathematical Review"
6. Editorial Board of "IAENG International Journal of Applied Mathematics"
7. Board of "Inverse Problems in Science and Engineering"
8. Editorial Board of "Nonlinear Analysis: Real World Applications"

## **Honors**

- Vice President of Inverse Problems International Association
- Honorary professor of East China Institute of Technology (China)
- Guest Professor of Southeast University (Nanjing, China)

## **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 2014 William F. Ames JMAA Best Paper Award