

**Name** Hisashi Okamoto

**Department** Gakushuin University

Department of Mathematics

1-5-1 Mejiro Toshima-ku Tokyo Japan 171-8588

hisashi.okamoto@gakushuin.ac.jp

<http://www-cc.gakushuin.ac.jp/~20170001/index.htm>



## Education

1985 *Doctor of Science, University of Tokyo*

1981 *Master of Science, University of Tokyo*

1979 *Bachelor of Science in Mathematics Major, University of Tokyo*

## Positions held

2017-present *Professor, Gakushuin University, Japan*

1994-2017 *Professor, Research Institute for Mathematical Sciences, Kyoto University, Japan*

1990-1994 *Associate Professor, ibid*

1987-1990 *Associate Professor, University of Tokyo, Japan*

## Awards & Honours

*Ordway Visiting Professor, School of Mathematics, University of Minnesota, Nov.--Dec. (2014), JMSJ Outstanding Paper Award (2014), Fellow of Japan SIAM (2013), Fellow of Japan Society for Fluid Mechanics (2013), Inoue Science Award (2002), Invited 45 minute lecture at ICM Berlin (1998),*

## Current editorial boards

*Japan Journal of Industrial & Applied Mathematics, Nonlinear Analysis: Real World Applications, Tokyo Journal of Mathematics, East Asia Journal on Applied Mathematics*

## Selected committee work

2017-present *ICIAM2023 Deputy Congress Director*

2011-2012 *President of East Asia Section of Society for Industrial and Applied Mathematics (USA)*

2003-2010 *Board member, International Council of Industrial and Applied Mathematics*

2013-2015 *Vice-president, Japan Society for Industrial and Applied Mathematics (Japan)*

## Five selected (recent) publications

1. H. Okamoto, *A study of bifurcation of Kolmogorov flows with an emphasis on the singular limit*, *Proc. Int. Congress Math.*, vol. III, (1998), 523-532.

2. H. Okamoto and M. Shoji, *Trajectories of fluid particles in a periodic water-wave*, *Philos. Trans. R. Soc. A* vol. 370, (2012), 1661--1676.

3. H. Okamoto, *Blow-up problems in the strained vorticity dynamics and critical exponents*, *Journal of Mathematical Society of Japan*. Vol. 65 (2013), 1079-1099.

4. S.-C. Kim, and H. Okamoto, *Unimodal patterns appearing in the Kolmogorov flows at large Reynolds numbers*, *Online, Nonlinearity*, vol. 28 (2015), 3219--3242

5. T. Miyaji, H. Okamoto, and A. D. D. Craik, *Three-dimensional forced-damped dynamical systems with rich dynamics: bifurcations, chaos and unbounded solutions*, *Physica D* vol. 311-312, (2015), pages 25--36.