



香港中文大學理學院
FACULTY OF SCIENCE
THE CHINESE UNIVERSITY OF HONG KONG

Science Faculty 60th Anniversary Distinguished Science Lecture

The Transformation from an Ordinary College Student to a Transformative Researcher

Prof. HOU Yizhao Thomas 侯一釗教授



Professor Thomas Yizhao Hou is a world-class applied and computational mathematician. He received his BSc and PhD degrees in mathematics from South China University of Technology and University of California, Los Angeles in 1982 and 1987, respectively. After obtaining his PhD, he worked as a postdoc, an assistant and an associate professor in Courant Institute from 1987 to 1993. He joined the faculty of California Institute of Technology in 1993 and became Charles Lee Powell Professor of Applied and Computational Mathematics in 2004.

Professor Hou has made groundbreaking contributions to several frontier areas in applied mathematics, including computational fluid dynamics, multiscale analysis, and singularity formation of three-dimensional incompressible Euler and Navier-Stokes equations. Prof. Hou has received a number of awards and honors, including Alfred P. Sloan Research Fellowship in 1990, Feng Kang Prize in Scientific Computing in 1997, Francois Frenkiel Award from American Physical Society in 1998, James H. Wilkinson Prize in Numerical Analysis and Scientific Computing from SIAM in 2001, Morningside Gold Medal in Applied Mathematics in 2004, the Computational and Applied Sciences Award from United States Association of Computational Mechanics in 2005, SIAM Outstanding Paper Prize in 2018, and the SIAM Ralph E. Kleinman Prize in 2023. Prof. Hou was also an invited Speaker at International Congress of Mathematicians in 1998 and a plenary speaker at International Congress on Industrial and Applied Math in 2003. Prof. Hou was elected SIAM Fellow in 2009, Fellow of American Academy of Art and Sciences in 2011, and Fellow of American Mathematical Society in 2012. He has served as the founding Editor-in-Chief of SIAM first interdisciplinary journal “Multiscale Modeling and Simulation” from 2002 to 2007.

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