

Song Jiang:

Professor at the Institute of Applied Physics and Computational Mathematics, Beijing, China. Jiang, born in 1963 in China, received his BSc in computational mathematics at Sichuan University in 1982. Then, he continued his study in computational mathematics at Xi'an Jiaotong University and got his MSc at the end of 1984. In 1985 he went to Germany for a PhD in applied mathematics. After his PhD degree at the University of Bonn in 1988, he was an Assistant Professor at the same University (1991-1996), and received the German Habilitation at the end of 1996. He joined the Institute of Applied Physics and Computational Mathematics in Beijing in 1997 and was appointed as full professor of mathematics.

His main research interests are in the mathematical theory and numerical methods for models from fluid dynamics, in particular, the well-posedness and qualitative behavior, including dynamic stability/instability and singular limits, of solutions to hyperbolic-parabolic coupled systems, such as the compressible Navier-Stokes equations and the magnetohydrodynamic equations; and high-order/ALE methods for multi-material flows under high pressure and temperature, including radiation transfer/hydrodynamic models and the equations of elastic-plastic flows, as well as their applications in the research of inertial confinement fusion.

Jiang also takes on various academic community services, e.g., he served as vice-president of China Society of Industrial and Applied Mathematical Society from 2008 to 2016, and is now President of Chinese Society of Computational Mathematics and the head of the Mathematics and Physics Division of National Science Foundation of China. Jiang received the Second Prize in China's State Natural Science Award and was the winner of the Ho Leung Ho Lee Foundation Science and Technology Prize in 2019. In 2015 Jiang was elected as an Academician of Chinese Academy of Sciences.