

## SRINIVASA RAMANUJAN

Srinivasa Ramanujan was born in 1887 in Erode, Tamil Nadu, India. He grew up in poverty and hardship. Ramanujan was unable to pass his school examinations, and could only obtain a clerk's position in the city of Madras. However, he was a genius in pure mathematics and essentially self-taught from a single text book that was available to him. He continued to pursue his own mathematics, and sent letters to three mathematicians in England, containing some of his results. While two of the three returned the letters unopened, G.H. Hardy recognized Ramanujan's intrinsic mathematical ability and arranged for him to go to Cambridge. Hardy was thus responsible for making Ramanujan's work known to the world during the latter's own lifetime. Ramanujan made spectacular contributions to elliptic functions, continued fractions, infinite series, and analytical theory of numbers. His health deteriorated rapidly while in England. He was sent home to recuperate in 1919, but died the next year at the age of 32.

## RAMANUJAN PRIZE

In 2005 the Abdus Salam International Centre for Theoretical Physics (ICTP) established the Srinivasa Ramanujan Prize for young mathematicians from developing countries, named after the mathematics genius from India. This Prize is awarded annually to a mathematician under 45.

Since the mandate of ICTP is to strengthen science in developing countries, the Ramanujan Prize has been created for mathematicians from those regions.

Ramanujan is the quintessential symbol of the best in mathematics from the developing world; naming the Prize after him honours his memory and the achievement of the Prize recipients.

The Prize is administered jointly by ICTP and the International Mathematical Union (IMU) and carries a \$10,000 cash award. The Prize is given with the provision that the prize money be used to support the research of the recipient. The selection committee is formed by eminent mathematicians members of both institutions.

## RAMANUJAN PRIZE SCULPTURE

The Ramanujan Prize sculpture is an exact miniature replica of the statue of Srinivasa Ramanujan that is kept in the ICTP Marie Curie Library. The bronze bust of Ramanujan was donated to ICTP by the SASTRA University in India, where the original bust is kept.

# A CELEBRATION OF MATHEMATICS

## ICTP - IMU 2024 RAMANUJAN PRIZE CEREMONY

ICTP  
9 December 2024



## 2024 RAMANUJAN PRIZE CITATION

Ruochuan Liu, professor at the Beijing International Center for Mathematical Research (BICMR) at Peking University in China, has been awarded the 2024 ICTP-IMU Ramanujan Prize for Young Mathematicians from Developing Countries for his fundamental contributions to p-adic Hodge theory.

He earned both his bachelor's and master's degrees from Peking University and completed his Ph.D. at MIT in 2008. Following his doctoral studies, he held postdoctoral positions at Université Paris Diderot, McGill University, the Institute for Advanced Study, and the University of Michigan. Liu returned to Peking University in 2012 and has since held faculty positions at the Beijing International Center for Mathematical Research and the School of Mathematical Sciences.

Liu's research has given important contributions, especially his foundational study of relative p-adic Hodge theory and his remarkable work on rigidity and the Riemann-Hilbert correspondence for p-adic local systems.

His work has received a number of recognitions, including the 2020 China Youth Science and Technology Award, the 2019 Tencent Explorer prize, and the 2017 National Science Fund Award for Distinguished Young Scholars.

## 2024 RAMANUJAN PRIZE CEREMONY

ICTP-IMU Ramanujan Prize Ceremony Programme  
9 December 2024, 14:00 - 17:00 CET

### Programme

14:00	<b>Opening Remarks</b> Prof. Atish Dabholkar, ICTP Director
	<b>Welcome remarks</b> Prof. Ulrike Tillman, Representative, International Mathematical Union (IMU)
14:20	<b>Introduction of Prize Winner</b> Prof. H�el�ene Esnault, Freie Universit�at Berlin
	<b>Prize to Ruochuan Liu</b>
14:35	'Riemann-Hilbert for p-adic varieties' by Ruochuan Liu  Q&A  The ceremony will be moderated by Prof. Claudio Arezzo, Head, ICTP Mathematics Section
15:35	<b>Refreshments</b> (Leonardo Building Lobby)
16:00	<b>Music concert</b> "Concerto dei Premiati" by Fondazione Bon