



PRESS RELEASE

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Marianna Csörnyei Named AWM-AMS 2022 Noether Lecturer

The Association for Women in Mathematics and the American Mathematical Society are pleased to announce that Marianna Csörnyei, Professor of Mathematics at the University of Chicago, will deliver the Noether Lecture at the 2022 Joint Mathematics Meetings to take place January 5 - 8 in Seattle, Washington.

Citation. Csörnyei received her Ph.D. from the Loránd Eötvös University in Budapest in 1999. Before joining the faculty at the University of Chicago, she was a Research Fellow at the University College London from 1999 to 2003, a member of the Institute for Advanced Study in Princeton during the 2003-2004 academic year, and a Professor of Mathematics at the University College London from 2004 to 2011.

Csörnyei has made significant contributions to several areas of mathematical analysis, including geometric measure theory, functional analysis and real analysis. While she was still an undergraduate, she established a reputation as a brilliant problem solver, continuing her success from high school when she won a gold medal at the International Mathematical Olympiad. Later she worked on deep, innovative long-term projects. She is known for example for her



results concerning various versions of the Kakeya needle problem and for her work on the structure of Lebesgue null sets in Euclidean spaces. The latter work is connected to questions concerning the possibility/impossibility of strengthening the Rademacher Theorem about the almost everywhere differentiability of Lipschitz functions, problems in partial differential equations

and the calculus of variations, as well as to some combinatorial problems.

Csörnyei was an invited speaker at the 2010 International Congress of Mathematicians and has given lectures at distinguished institutions around the world. In 2002, she won both the Whitehead Prize from the London Mathematical Society and the Royal Society Wolfson Research Merit Award. In 2008 she was awarded the Philip Leverhulme Prize for her work in geometric measure theory. In 2019 she was elected an External Member of the Hungarian Academy of Sciences.

Csörnyei was recommended for this honor by a joint AWM-AMS Selection Committee whose members are Barbara Keyfitz, Wen-Ch'ing Li, Ayelet Lindenstrauss, and Vladimir Sverak (Chair).

AWM established the Emmy Noether Lectures in 1980 to honor women who have made fundamental and sustained contributions to the mathematical sciences. The lecture honors Emmy Noether (1882 – 1935), one of the great mathematicians of her time. She worked and struggled for what she loved and believed in. Her life and work remain a tremendous inspiration.