

# James A. Maynard

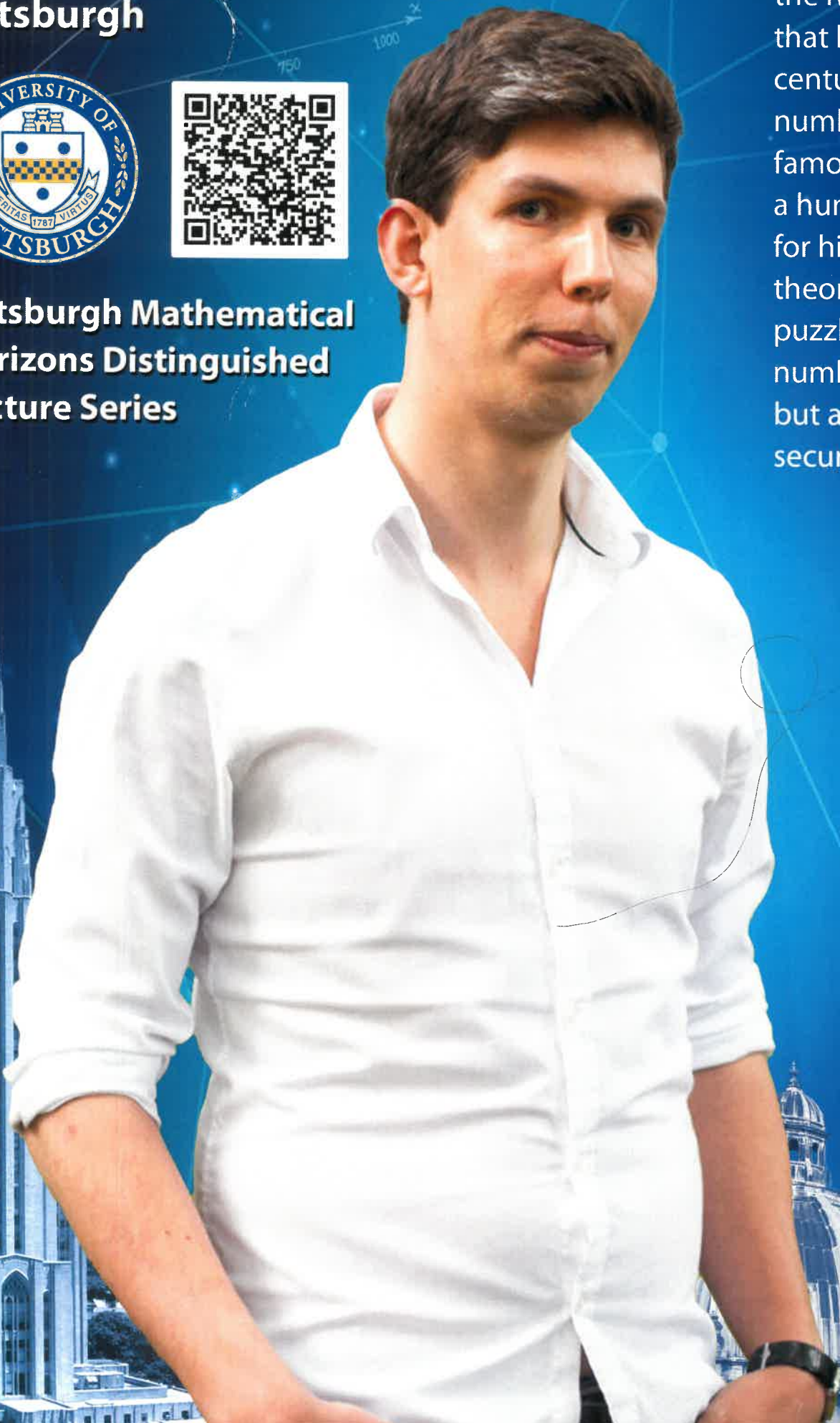
# PATTERNS in the PRIMES

**Friday, March 21, 2025  
3:30pm**

**125 Frick Fine Arts Building,  
Pittsburgh**



**Pittsburgh Mathematical  
Horizons Distinguished  
Lecture Series**



Join us for an inspiring lecture on the mysteries of prime numbers, presented by James A. Maynard, a Fields Medal laureate and Fellow of the Royal Society. Prime numbers hold secrets that have fascinated mathematicians for centuries. For instance, how often do two prime numbers differ by exactly 2? This simple yet famous question remains unsolved, despite over a hundred years of dedicated effort. Recognized for his groundbreaking contributions to number theory, Maynard will explore these enduring puzzles, revealing how patterns in prime numbers connect not only to pure mathematics but also to real-world applications, such as securing our online communications.

Open and accessible to the science-interested public of all ages, this presentation promises to illuminate the elegance of mathematics and its profound impact on our understanding of the world.

The doors for the event will open at 3 PM. Following the talk, a reception will be held in the Frick Fine Arts Cloister until 5:30 PM.

The Pittsburgh Mathematical Horizons lecture series was made possible by a generous donation of the Benter Foundation

$$\psi_0(x) = x - \ln(2\pi) - \sum_{\rho} \frac{x^{\rho}}{\rho} - \frac{1}{2} \ln\left(1 - \frac{1}{x^2}\right)$$