

**Verified  
Certificate**



A handwritten signature in black ink, appearing to read "J. Tsitsiklis".

**John Tsitsiklis**

Professor, Department of Electrical  
Engineering and Computer Science

*Massachusetts Institute of Technology*

A handwritten signature in black ink, appearing to read "Sanjay Sarma".

**Sanjay Sarma**

Vice President for Open Learning

*Massachusetts Institute of Technology*

This is to certify that

**Scott Penco**

successfully completed and received a  
passing grade in

**6.431x: Probability - The Science  
of Uncertainty and Data**

a course of study offered by MITx, an  
online learning initiative of the  
Massachusetts Institute of Technology.



**Verified Certificate**

Issued May 31, 2022

**Valid Certificate ID**

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