

# VERIFIED

CERTIFICATE *of* ACHIEVEMENT



This is to certify that

**Maria Chzhen**

successfully completed and received a passing grade in

**FC1x: Fat Chance: Probability from the Ground Up**

a course of study offered by HarvardX, an online learning initiative of Harvard University.

A handwritten signature in black ink, appearing to read "Benedict Gross".

**Benedict Gross**  
Leverett Professor of Mathematics, Emeritus  
*Harvard University*

A handwritten signature in black ink, appearing to read "Joe Harris".

**Joseph Harris**  
Higgins Professor of Mathematics  
*Harvard University*

A handwritten signature in black ink, appearing to read "Emily Riehl".

**Emily Riehl**  
Assistant Professor, Department of  
Mathematics  
*Johns Hopkins University*



VERIFIED CERTIFICATE  
Issued May 20, 2019

VALID CERTIFICATE ID  
[8668affc7afd4a0bb066bd4446f4ed15](https://courses.edx.org/certificates/8668affc7afd4a0bb066bd4446f4ed15)