

# VERIFIED

CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, appearing to read "Rafael Irizarry".

Rafael Irizarry

Professor of Biostatistics

*Harvard T.H. Chan School of Public Health*

This is to certify that

**Alexis M Roldan**

successfully completed and received a passing grade in

**PH125.5x: Data Science: Productivity  
Tools**

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



VERIFIED CERTIFICATE  
Issued November 18, 2019

VALID CERTIFICATE ID  
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