

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

PH125.6x: Data Science: Wrangling

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



VERIFIED CERTIFICATE

Issued November 19, 2019

VALID CERTIFICATE ID

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