



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

Caroline Béatrice JEAN-PIERRE

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.



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