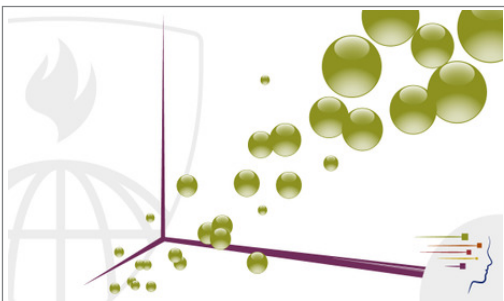


JUNE 18, 2014

Statement of Accomplishment

DOUG NEEDHAM

HAS SUCCESSFULLY COMPLETED THE JOHNS HOPKINS UNIVERSITY'S OFFERING OF



Exploratory Data Analysis

Covers exploratory data summarization techniques that are applied before modeling to inform development of complex models. Topics include plotting in R, principles of constructing graphics, and common multivariate techniques used for high-dimensional data visualization.

A handwritten signature in black ink, appearing to read 'Roger D. Peng', written over a horizontal line.

ROGER D. PENG, PHD
DEPARTMENT OF BIostatISTICS, JOHNS HOPKINS
BLOOMBERG SCHOOL OF PUBLIC HEALTH

A handwritten signature in black ink, appearing to read 'Jeffrey Leek', written over a horizontal line.

JEFFREY LEEK, PHD
DEPARTMENT OF BIostatISTICS, JOHNS HOPKINS
BLOOMBERG SCHOOL OF PUBLIC HEALTH

A handwritten signature in black ink, appearing to read 'Brian Caffo', written over a horizontal line.

BRIAN CAFFO, PHD, MS
DEPARTMENT OF BIostatISTICS, JOHNS HOPKINS
BLOOMBERG SCHOOL OF PUBLIC HEALTH

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