



**BIOSTATISTICS**  
SCHOOL OF PUBLIC HEALTH

*3rd Summer Institute in Statistics  
for Big Data*

University of Washington, Seattle, WA

July 10, 2017 — July 26, 2017

*This is to certify that*

**Andrew DiLernia**

*has completed the requirements for*

**Data Wrangling with R**

*July 10, 2017 to July 12, 2017*

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Daniela Witten, PhD  
Associate Professor of Biostatistics & Statistics  
Co-Director, Summer Institute in Statistics for Big Data

July 12, 2017

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Ali Shojaie, PhD  
Assistant Professor of Biostatistics  
Co-Director, Summer Institute in Statistics for Big Data

July 12, 2017