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JANUARY 06, 2014

# Statement of Accomplishment

## OLEKSII HAIEVSKYI

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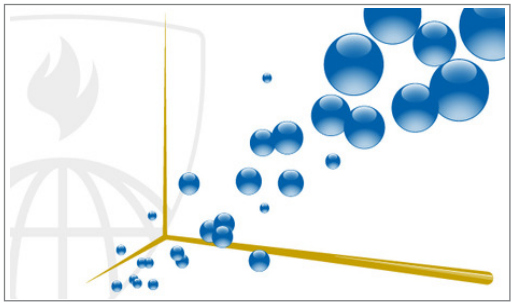

## Data Analysis

This course teaches students the most effective data analysis methods to solve problems and achieve insight.

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

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DECEMBER 20, 2013

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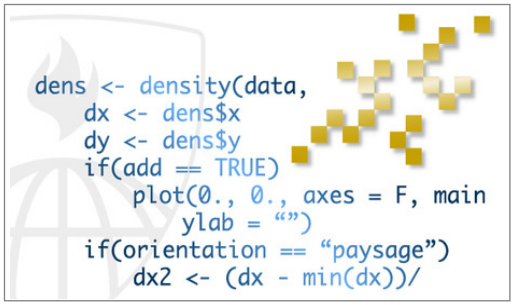


## Computing for Data Analysis

In this course students learn programming in R, reading data into R, creating data graphics, accessing and installing R packages, writing R functions, debugging, and organizing and commenting R code.

ROGER D. PENG, PHD

DEPARTMENT OF BIOSTATISTICS

JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH

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MAY 09, 2014

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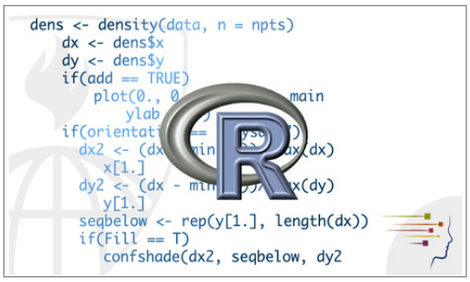


## R Programming

This course covers how to use & program in R for effective data analysis. It covers practical issues in statistical computing: programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, & organizing and commenting R code.

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

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

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

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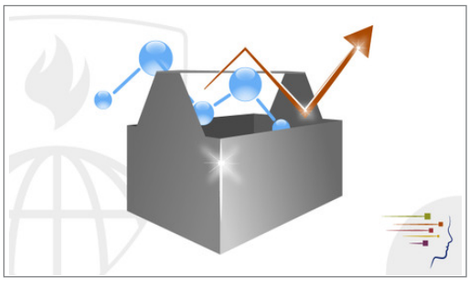

## The Data Scientist's Toolbox

Overview of the data, questions, & tools that data analysts & scientists work with. It is a conceptual introduction to the ideas behind turning data into knowledge as well as a practical introduction to tools like version control, markdown, git, GitHub, R, and RStudio.

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

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

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

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JUNE 18, 2014

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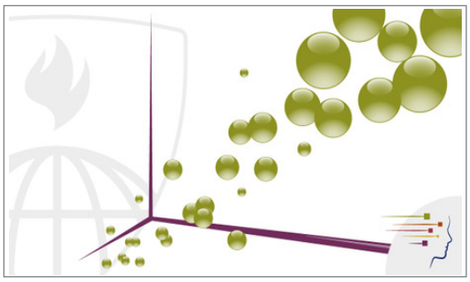

## Exploratory Data Analysis

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.

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

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

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

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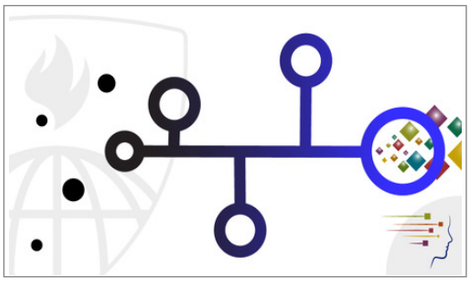

## Getting and Cleaning Data

This course covers obtaining data from the web, APIs, databases, and colleagues in various formats, as well as the basics of cleaning and "tidying" data. It also covers the components of a complete data set: raw data, processing instructions, codebooks, & processed data.

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

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

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

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## Developing Data Products

This course covers the basics of creating data products using Shiny, R packages, and interactive graphics. The course focuses on the statistical fundamentals of creating a data product that can be used to tell a story about data to a mass audience.

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

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

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

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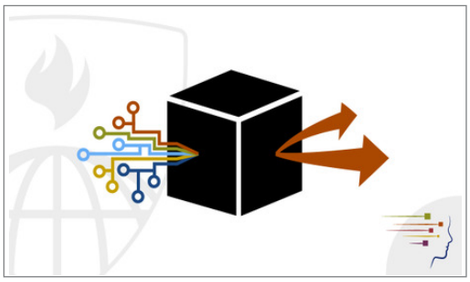

## Practical Machine Learning

Upon completion of this course students understand the components of a machine learning algorithm and how to apply multiple basic machine learning tools. Students also learn to apply these tools to build and evaluate predictors on real data.

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

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

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

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AUGUST 13, 2014

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## Statistical Inference

Students receive a broad overview of the goals, assumptions, and modes of statistical inference. Successful students can perform inferential tasks in highly targeted settings and are able to use the skills developed for more complex inferential challenges.

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

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

ROGER D. PENG, PHD
DEPARTMENT OF BIOSTATISTICS, JOHNS HOPKINS
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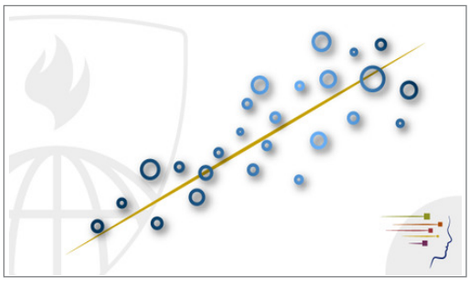

## Regression Models

Students learn how to fit regression models, interpret coefficients, and investigate residuals and variability. Students also learn to use dummy variables, multivariable adjustment, and extensions to generalized linear models, especially Poisson and logistic regression.

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

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

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

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JUNE 18, 2014

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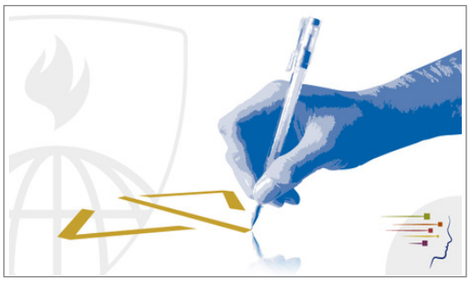

## Reproducible Research

This course covers how to write a document using R markdown, integrate live R code into a literate statistical program, compile R markdown documents using knitr and related tools, and organize a data analysis so that it is reproducible and accessible to others.

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

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

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

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JANUARY 08, 2014

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## OLEKSII HAIEVSKYI

HAS SUCCESSFULLY COMPLETED UNIVERSITY OF TORONTO'S NON-CREDIT ONLINE OFFERING OF

## Learn to Program: The Fundamentals

This course provides an introduction to computer programming using Python. Topics include elementary data types (numeric types, strings, lists, tuples, dictionaries and files), control flow (if, for, while), functions, modules, objects, methods, fields and mutability.

PROFESSOR JENNIFER CAMPBELL
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF ARTS AND SCIENCE
UNIVERSITY OF TORONTO

PAUL GRIES
ASSOCIATE PROFESSOR, TEACHING STREAM
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF ARTS AND SCIENCE
UNIVERSITY OF TORONTO

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JUNE 24, 2015

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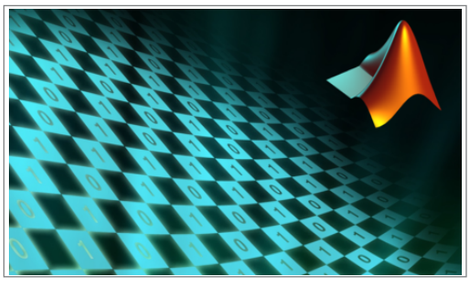

## Introduction to Programming with MATLAB

This course teaches computer programming to those with little to no previous experience. We use the programming system and language called MATLAB because it is easy to learn, versatile, and very useful for engineers and other professionals.

AKOS LEDECZI
PROFESSOR, COMPUTER ENGINEERING

MIKE FITZPATRICK
PROFESSOR EMERITUS
COMPUTER SCIENCE, COMPUTER ENGINEERING, ELECTRICAL ENGINEERING, NEUROSURGERY, AND RADIOLOGY,

ROBERT TAIRAS, PH.D.
ASSISTANT PROFESSOR OF THE PRACTICE OF COMPUTER SCIENCE
DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, VANDERBILT UNIVERSITY

MARCH 20, 2015

# Online Course
# Statement of Accomplishment

## OLEKSII HAIEVSKYI

HAS SUCCESSFULLY COMPLETED A FREE ONLINE OFFERING OF THE FOLLOWING COURSE PROVIDED BY STANFORD UNIVERSITY THROUGH COURSERA INC.

## Cryptography I

This course covers the theory and practice of cryptographic systems. Topics included symmetric encryption, data integrity, public-key encryption, and key exchange. The course emphasized the correct use of these primitive.

Dan Boneh

DAN BONEH
PROFESSOR OF COMPUTER SCIENCE,
STANFORD UNIVERSITY

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HAS SUCCESSFULLY COMPLETED

## Model Thinking

This course provided an introduction on how to think using models. Specific topics included, among others, decision-making, tipping points, economic models, crowd dynamics, Markov processes, game theory and predictive thinking.

SCOTT PAGE
LEONID HUWICZ COLLEGIATE PROFESSOR OF COMPLEX SYSTEMS, POLITICAL SCIENCE, AND ECONOMICS
UNIVERSITY OF MICHIGAN