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MAY 13, 2013

# Statement of Accomplishment

# ALEXIS GAEVSKY

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

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JANUARY 06, 2014

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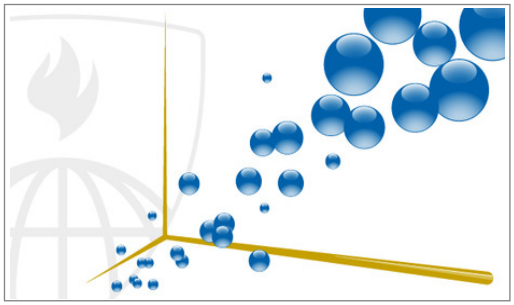

## Data Analysis

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

JEFFREY LEEK, PHD
DEPARTMENT OF BIOSTATISTICS
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JANUARY 08, 2014

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## 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

PROFESSOR PAUL GRIES
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF ARTS AND SCIENCE
UNIVERSITY OF TORONTO

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DECEMBER 20, 2013

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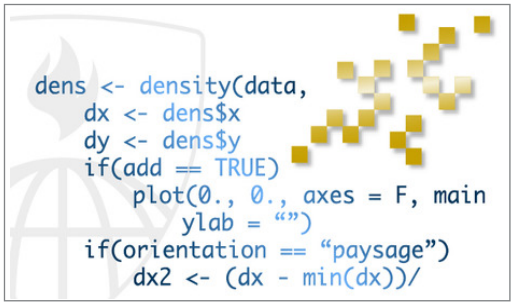


## Computing for Data Analysis

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.

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MAY 08, 2014

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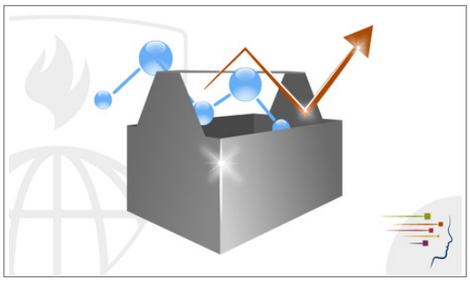

## The Data Scientist's Toolbox

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.

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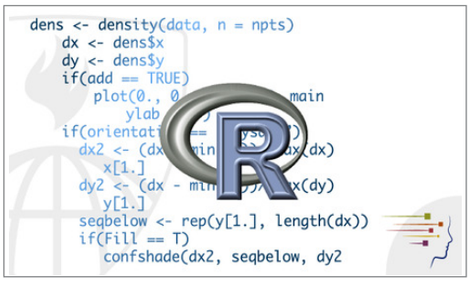


## R Programming

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.

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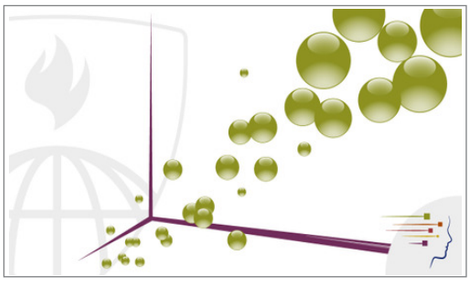

## Exploratory Data Analysis

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.

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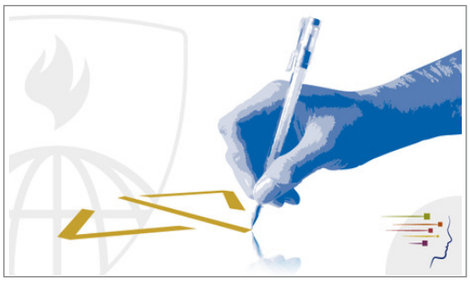

## Reproducible Research

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.

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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.

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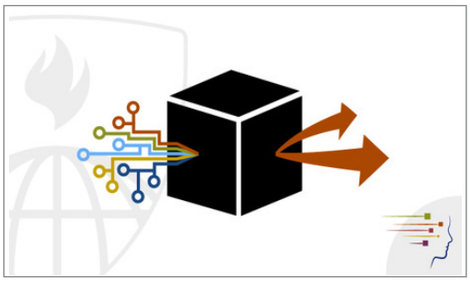

## Practical Machine Learning

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.

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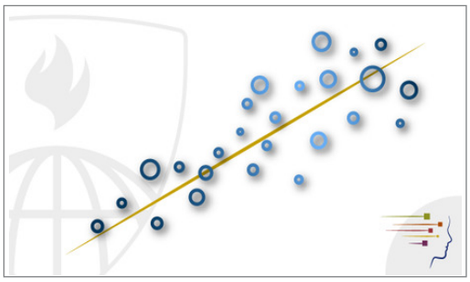

## Regression Models

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.

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