COURSE DETAIL

VISUALIZATION AND EXPLORATORY ANALYSIS

Country
United Kingdom - England

Host Institution
University of London, Royal Holloway

Program(s)
University of London, Royal Holloway

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
120

UCEAP Course Suffix

UCEAP Official Title
VISUALIZATION AND EXPLORATORY ANALYSIS

UCEAP Transcript Title
VISUALIZATN&ANALYS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

The course examines the principles and arts of statistical visualization and exploratory analysis of data. Course content includes construction of informative bi-variate plots, alongside visualization of multivariate data. It explores dimensional reduction, non-linear methods (t-SME, isomap, Proxigrams), and exploratory cluster analysis. Students examine standard methods for visualization of relational and graph data (Gephi), the importance of guarding against "snooping" and basic principles of color scale design and glyph choice.

Language(s) of Instruction

English

Host Institution Course Number

CS3250

Host Institution Course Title

VISUALIZATION AND EXPLORATORY ANALYSIS

Host Institution Campus

Royal Holloway, University of London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

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