COURSE DETAIL

STATISTICS: PRINCIPLES, METHODS AND R (I)

Country
China

Host Institution
Fudan University

Program(s)
Fudan University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Statistics

UCEAP Course Number
123

UCEAP Course Suffix

UCEAP Official Title
STATISTICS: PRINCIPLES, METHODS AND R (I)

UCEAP Transcript Title
STATS: METHODS&R

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

The topics covered in this course include introduction of R, probability, independence, conditional probability, Bayes' formula, random variables and distributions, moment generating functions, probability inequalities, law of large numbers, central limit theorem, point estimation, maximum likelihood estimation, Fisher's information, asymptotic efficiency, Hypothesis testing, Wald's test, t-tests, likelihood ratio tests, permutation tests, confidence intervals.

Language(s) of Instruction
Chinese

Host Institution Course Number
DATA130005

Host Institution Course Title
STATISTICS: PRINCIPLES, METHODS AND R (I)

Host Institution Campus

Host Institution Faculty
Gao Fengnan

Host Institution Degree

Host Institution Department
Data science

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