

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 Course Details

Host Institution Campus

Host Institution Faculty

Gao Fengnan

Host Institution Degree

Host Institution Department

Data science

Course Last Reviewed

2020-2021

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