

COURSE DETAIL

CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

123

UCEAP Course Suffix**UCEAP Official Title**

CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA

UCEAP Transcript Title

CLOUD COMP HDD

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course offers practical training in data science, focusing on high-dimensional data computing and dimension reduction algorithms. The characteristics of this course are the hands-on experience with high-performance computers and the observation of real data from a statistical perspective. Practical exercises will be conducted on high performance GPU servers on the cloud, possibly utilizing resources such as the NVIDIA V100 from our NTU or Google Colab. In addition to the hands-on exercises, statistical theories related to dimension reduction algorithms, data visualization, and data interpretation are introduced. The Python programming skills are taught during the first month as part of a combined and quick recap course. The course is taught in English, but bilingual Q&A sessions are acceptable.

Language(s) of Instruction

English

Host Institution Course Number

IMPS5010

Host Institution Course Title

CLOUD COMPUTING FOR HIGH DIMENSIONAL DATA

Host Institution Course Details

https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=H41%20U0120&c...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Statistics

Course Last Reviewed

2024-2025

[Print](#)