



香港浸會大學
HONG KONG BAPTIST UNIVERSITY

Course Overview

JOUR7280/COMM7780

Big Data Analytics for Media and Communication

Instructor: Dr. Xiaoyi Fu

Contact Information

- Lecturer
 - Dr. Xiaoyi FU (傅晓艺)
 - Email: xiaoyifu@hkbu.edu.hk
 - Consultation hours: by appointment
- Teaching assistant
 - Mr. Shijun Ni
 - Email: 20481578@life.hkbu.edu.hk
- Time: Thu 9:30-12:20 CVA703

Who am I

Xiaoyi Fu, PhD

IT Professional – Computer Science Researcher

- Lecturer
 - Department of Journalism- Hong Kong Baptist University



- Background
 - Bachelor of Engineering in Computer Science & Technology, Zhejiang University
 - PhD in Computer Science, HKBU

What do you expect from the course?



- Scan QR Code or visit <https://docs.qq.com/doc/DTkZNbXpMbEVJUkpl>

Is this course hard?

- This course (may/might/probably/possibly) be hard



Is this course easy?

- This course (may/might/probably/possibly) be easy



Is this course happy?

- You will learn a lot of new and useful things
 - This course is informative and helpful!

What is this course about?

- EDAV
 - Exploratory
 - Data
 - Analysis
 - Visualization
- Which Kind of Data?
 - Numerical
 - Text
 - Images
 - Sound

Course Objectives

- Course aims
 - Describe fundamentals of Python programming
 - Explain concepts of computational thinking
 - Describe and explain concepts of data analysis packages
 - Use Python to execute data analysis packages
 - Conduct data analysis and design visualization to present analysis results

Course Overview

- Module 1: Data science fundamentals and Python programming
- Module 2: Data collection and (pre-)processing
- Module 3: Data exploration and visualization

Course Information & Topics

- (Tentative) Course Schedule
 - Module 1 (Week 1-6):
 - Media and communication in the digital age
 - Data science projects pipeline
 - Python in action
 - Module 2 (Week 7-9):
 - Data scraping
 - Data (pre-)processing
 - Module 3 (week 10-12):
 - Data exploration and visualization

Assessment Components

Type of Assessment	Weighting	Description of Assessment Tasks
Class participation & tutorial tasks	15%	Students will be introduced in lectures and guided readings to the key concepts and methods on data acquisition and processing in the digital age.
Individual exercises	25%	Students develop and test customized algorithms individually to collect and process social media data.
Group project and presentation	60%	Students work in teams to collect, process, and analyze social media data and present their findings in data product and an oral presentation.

Assessment

- Class participation and tutorial tasks (15%)
- Students are expected to participate in the lecture sessions, tutorial exercise, and project-based consultation meetings punctually and actively.



Assessment

- Individual assignment(25%)
 - 1 automated online data acquisition challenge (12.5%)
 - 1 exploratory data visualization assignment (12.5%)
 - 400– 600 words in English;
 - defining the problems
 - identifying the (online) data sources
 - presenting the codes and analytical process step by step
 - briefly reporting the results

Assessment

- **Group Project (60%):** Presentation (30%) and report (30%)
 - 3 - 4 students per group;
 - Develop a data-driven investigation and storytelling project based on public datasets;
 - Present the research questions, methods and approaches, and findings;
 - In-class presentation, 10 - 12 minutes
 1. Appropriateness of materials;
 2. Proper application of data science skills;
 3. Organization – clear and logical flow, coherent and cohesive;
 4. Delivery – clear and focused presentation;

Assessment

- **Group Project (60%):** Presentation (30%) and report (30%)
 - Written report
 1. No more than 1000 words in English (excluding references, codes, and appendix)
 2. Focusing on questions, and data analytical steps (the pipelines)
 3. Interpreting the results

Assessment

- Workload distribution declaration for Group Project
 - **NO “free rider” please.**
 - You can discuss, negotiate and allocate the workload on your own within your team.
 - A **declaration form** will be submitted with your final project report.
 - During the in-class presentation, a table clearly show the **labor distribution** is required.

Group Members						
	Data collecting	Data visualization	Report writing	PPT	Interview and Video	Presentation
CHEN Xi	✓		✓			✓
LAN Yani	✓			✓	✓	✓
CHEN Weishan	✓		✓			
SHEN Tianxiao	✓					
WANG Yang	✓	✓	✓		✓	✓

Assessment

- Plagiarism
 - Pay attention to the University's academic regulations rules and guidance notes regarding plagiarism
 - The University may take disciplinary actions against students when there is evidence of collusion between individuals.
 - The work of others which is included in the assignment must be attributed to its source
 - sources citations
 - bibliography referencing
 - Failure to observe such requirements may lead to serious consequences for your study in this course and your registration at the University.

Class Rules

- In-class rules.
 - “Silence is golden” - as long as you keep quiet...
 - Eating and drinking?
 - You are requested to **bring your own laptop**
 - Medium of instruction?
 - Dress code?



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Thank You

