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COM5507 Social Media Data Acquisition and Processing Week 1a. Introduction to the Course

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5 Sep 2018 @ CityU M5064

Agenda

- Who am I?
- What is this course about?
- What is the assessment method?

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- www.drxinzhizhang.com
- https://scholar.google.com/citations?user=iOFelDIAAAAJ&hl=en
- @xin zhi zhang
- https://github.com/xzzhang2

Current Position

- Research Assistant Professor, Department of Journalism, Hong Kong Baptist University
- Programme Director, the Data and Media Communication Concentration (DMC)

Professional Experience

- Research Assistant Professor, Department of Journalism,
 Hong Kong Baptist University (2016 – Present)
- Lecturer, School of Professional Education & Executive Development,
 The Hong Kong Polytechnic University (2014 – 16)
- Postdoctoral Fellow, Department of Media and Communication,
 City University of Hong Kong (2013 14)

Education

- Ph.D. in Media and Communication,
 City University of Hong Kong (2009 13)
- M.A. with Distinction, in Communication and New Media,
 City University of Hong Kong (2008 09)
- B.A. in Broadcasting Journalism,
 Guangzhou University, China (2004 08)









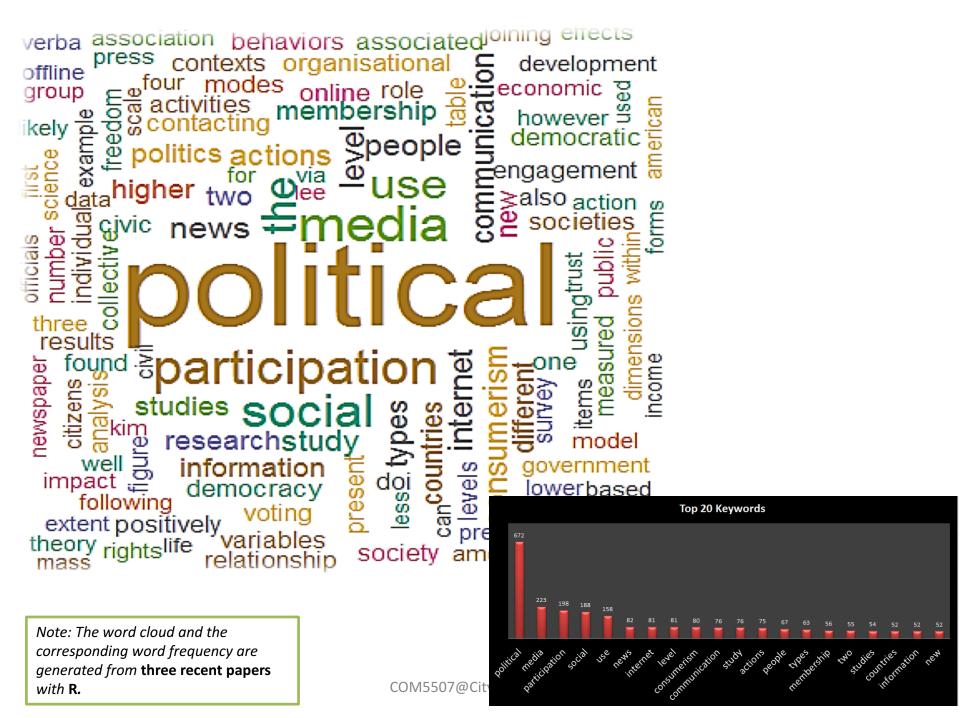




My research areas

- Emerging information and communication technologies and social change
- Comparative political communication
- Digital humanities and digital popular culture
- Data-driven journalism and data visualization
- Computational methods and digital media

• ...



My teaching

Multimedia **Humanities** Films and Storytelling Communication Culture & Ways of Life **Contexts and Cases** Contemporary China Issues & Cases in Mass Communication Languages, Cultures, and Communication **Practical** Theoretical Data-driven Journalism Workshop Research project supervision Social Media Data **Global Communication Acquisition and Processing Communication Theory** (with Python) **Social Sciences**

Theories & Patterns

5 Sep 2018

Is this course easy?

Is this course happy?

Am I getting lost?

This course works on different types of (online) data – and fetch them

This course works on different types of (online) data – and process them

This course (may) be hard...

This course is interdisciplinary

http://chasingdeer.co.uk/analyst-venn-diagram.html

https://www.r-bloggers.com/datascience-in-businesscomputationalsocial-science-in-academia/

https://knightlab.northwestern.edu/2013/06/28/want-to-build-a-data-journalism-team-youll-need-these-three-people/

This course is informative and helpful!

Course Overview

- Unit 1: Data science fundamentals and preliminary Python programming (week 1 – 3)
- Unit 2: Automated web data collection (week 4 7)
- Unit 3: Data (pre-)processing and data management (week 8 – 9)
- Unit 4: Data exploration (week 10 − 11)

Assessment Components

Type of Assessment	Weighting	CILOs to be addressed	Description of Assessment Tasks
Class participation and tutorial tasks	30%	1, 3, 4	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	40%	2, 3, 5	Students develop and test customized algorithms individually to collect and process social media data.
Group project and presentation	30%	1, 2, 4, 5	Students work in teams to collect, process, and analyze social media data and present their findings in data product and an oral presentation.

- Class participation and tutorial tasks (30%)
- Attendance will be taken each week and there will be regular "attendance checkpoints." "
- Attendance check points" will be announced every 3 weeks (from week 2 – week 13). Full-attendance in each of the check point will be awarded 1 mark in their final course evaluation;
- (Ir-)regular small quiz and bonuses.
- Students are expected to participate in the lecture sessions, tutorial exercise, and project-based consultation meetings punctually and actively.

Individual Exercises (40%)

- 1 automated online data acquisition challenge (20%)
- 1 automated data processing (data cleaning) challenge (20%)
- for each assignment:
 - 500–800 words in English;
 - defining the problems
 - identifying the (online) data sources
 - presenting the codes and analytical process step by step
 - briefly reporting the results

- Group Project (30%): Presentation (15%) and report (15%)
 - 3 4 students per group;
 - Develop a data-driven investigation and storytelling project based on first-hand automated web data collection and present the research questions, methods and approaches, and findings;
 - Each group, with all the members, should meet and discuss the project with the instructor at least twice throughout the semester;
 - In-class presentation, 12 15 minutes;
 - 1. appropriateness of materials;
 - 2. proper application of data science skills;
 - 3. organization clear and logical flow, coherent and cohesive;
 - 4. delivery use of high concepts, clear and focused presentation;
 - Written reports
 - A4 pages 12 15 pages in English (excluding references, codes, and appendix)
 - 2. focusing on questions, and data analytical steps (the pipelines)
 - 3. interpreting the results

- 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.

Weekly Schedule

Teaching Plan.

Class Rules

- 1. On Class-Participation
 - No attendance requirement, but the participation is counted into the final assessment.
 - The sign-up sheet
 - The regular participation
 - Please be punctual

Class Rules

- 2. In-class rules.
 - "Silence is golden" as long as you keep quite...
 - Eating and drinking?
 - You may bring your own laptop
 - Medium of instruction?