



Medical Geography

Course Intro.

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Outline

- About CCH
- Course Intro
- Grading Policy
- Why do you need to take this course?
- What will you learn from this course?
- Question Time

About CCH

現職:

國立臺灣師範大學地理系 助理教授

主要經歷:

中原大學智慧運算與大數據學士班/碩士學位學程 助理教授

台灣資安鑄造股份有限公司 人工智慧分析顧問

臺北醫學大學醫學系放射線學科 博士後研究員

臺北市立萬芳醫院影像醫學部 博士後研究員

中央研究院社會學研究所 兼任資料分析師

資訊工業策進會資安科技研究所 工程師

國家災害防救科技中心坡地組 實習生

最高學歷:

國立臺灣大學地理環境資源學系 博士



Research Interests



Previous Projects



Global Airline Alliance Airport Network



Timely Exposure Risk Estimation



COVID-19 Disease Transmission

Spatiotemporal Religious Dissemination



Social Media Marketing



Urban

Chun-Hsiang Chan (2023)

Global

Other Projects

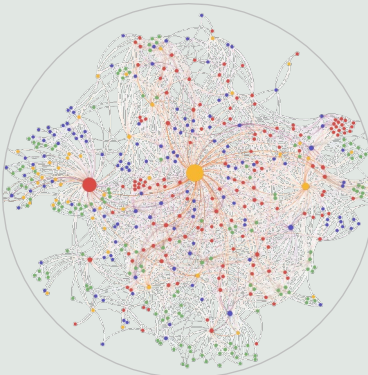
Disaster Warning AI



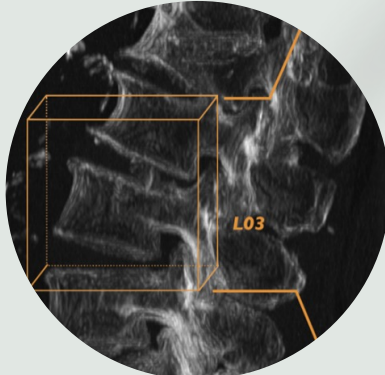
Heatwave Events



Cybersecurity AI



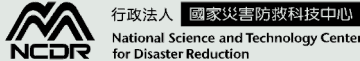
Osteoporosis AI



CPR AI



DATARGET



Other Interests



Русский | Español | 日本語



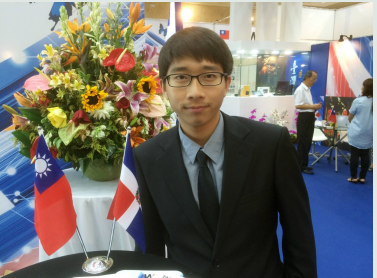
My first Russian Book | Published in Nov. 2021



Exhibition Staff | Moscow, 2015



Exhibition Staff | St. Petersburg, 2015



Exhibition Staff | República Dominicana, 2015



Exhibition Staff | Colombia, 2015



Host | NTU Russian Night, 2017



ABC news | Paraguay, 2015
Exhibition Staff | Paraguay, 2015

Course Intro.

- We will introduce two parts:
 - How can we leverage spatial analysis to characterize the disease transmission?
 - How can we employ spatial analysis in the medical research field?

Course Intro.

Week	Date	Content
1	Sep. 4	Course Introduction
2	Sep. 11	Introduction to Medical Geography
3	Sep. 18	Contagious Disease
4	Sep. 25	PBL 1: COVID-19 Pandemic
5	Oct. 2	PBL 1: COVID-19 Pandemic
6	Oct. 9	National Day (no class)
7	Oct. 16	Emergency Medical Service (EMS)
8	Oct. 23	Midterm Report
9	Oct. 30	EMS Resource Allocation
10	Nov. 6	Osteoporosis

Week	Date	Content
11	Nov. 13	Clinical Practice with Spatial Analysis
12	Nov. 20	PBL 2: Medical Image Processing
13	Nov. 27	Air Pollution and Its Application (PBL 3: Spatiotemporal Analysis)
14	Dec. 4	Artificial Intelligence and AIoT Challenge in Medical Geography (Open Discussion Forum)
15	Dec. 11	Final Report Presentation
16	Dec. 18	Final Exam Week (no class)

Grading Policy

- All you have to do is study hard and feel free to ask question when you do not understand.
- I believe that if you fulfill all required items, and then you will pass this course / get a high GPA.
- Do not worry about the grade! The most important thing is what you learn from this course.

Attendance 10%

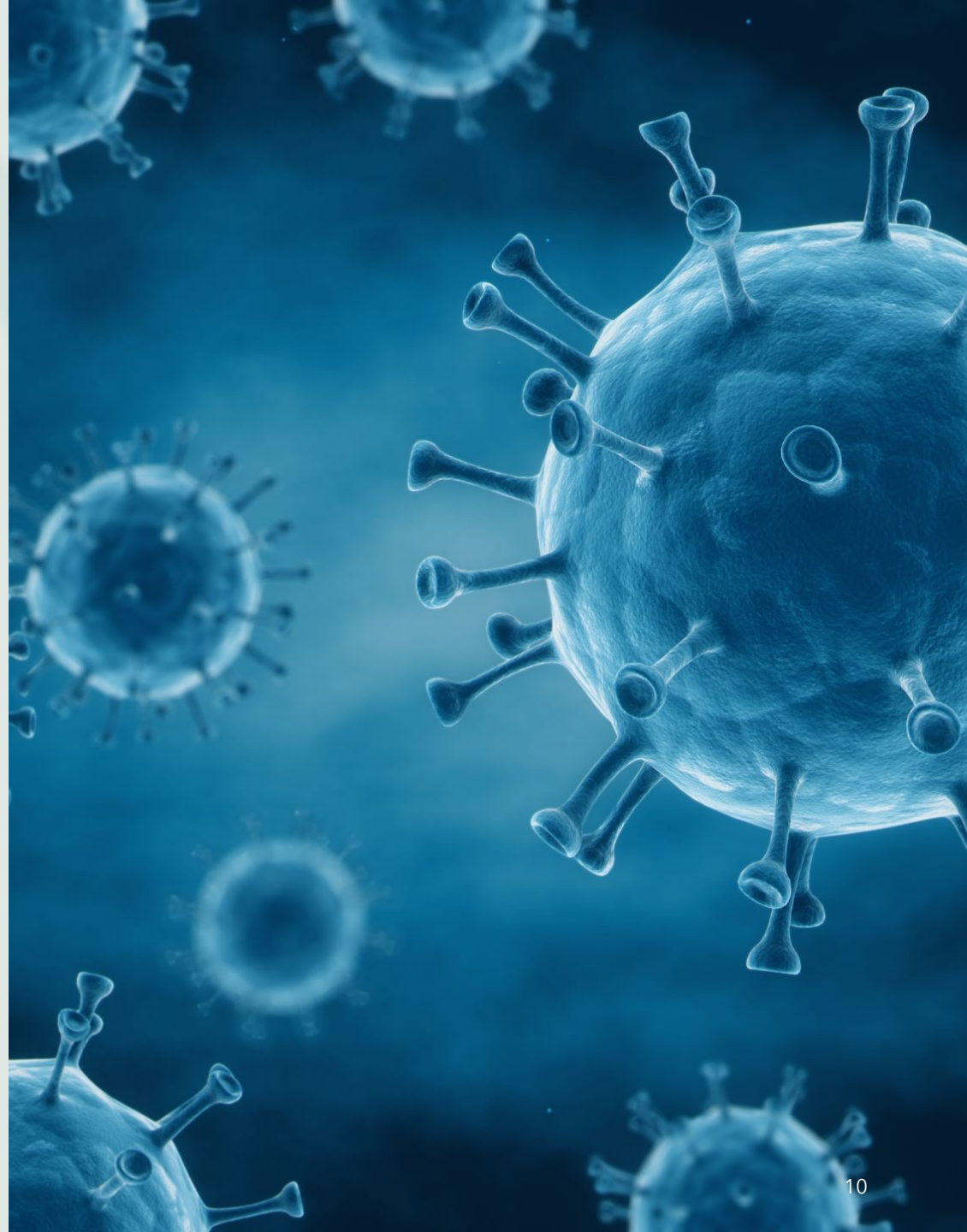
Assignment 45%

Discussion 15%

Midterm & Final 30%

Why do you need to take this course?

- As the development of air transportation, people are suffered from infectious disease much severe than ever.
- But how can we help the global public health system from a geographic approach?



What will you learn from this course?

- In the undergraduate courses, you have already understood various spatial analysis methods; however, you seldom apply these methods into your projects or dissertations.
- Here, we will use three examples to demonstrate the spatiotemporal disease transmission and the applications of spatial analysis in the clinical medicine.



The End

Thank you for your attention!

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