

# Yin-Chung (Lloyd) Huang

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## PROFILE

Passionate graduate student with strong chemistry and statistic backgrounds. Held a specific domain knowledge in soil science and involved in multidisciplinary study including mineralogy, machine learning, and remote sensing. Experienced in seminar presentation and assisted teaching lecture for more than two semesters. Aimed to apply spectroscopy and pedology knowledge to solve biogeochemical problems. The ambition is demonstrated by peer-reviewed publications, distinguished academic performance and extracurricular experience.

## EDUCATION

**National Taiwan University (NTU)** Sept. 2020 – June 2022  
*Master of Science in Agricultural Chemistry* Taipei, Taiwan

- GPA 4.29/4.30
- Thesis: Characterization of podzolic soils using proximal soil sensing in subtropical subalpine forests

**National Taiwan University** Sept. 2019 – Jan. 2022  
*Biological Statistics Program*

- Completed 20 designated credits, including Advanced Statistics, Applied Linear Algebra, Experimental Design, Artificial Neural Networks, and Spatial Analysis

**National Taiwan University** Sept. 2017 – June 2020  
*Bachelor of Science in Agricultural Chemistry* Taipei, Taiwan

- GPA 4.24/4.30
- Rank 1/55 (**summa cum laude**)

## PUBLICATION

**Huang, Y.C.** and Hseu, Z.Y. 2021. Silicon availability in relation to soil properties in Inceptisols on uncultivated lands and paddy fields in Taiwan. *Geoderma Regional*, e00406. (**SCI, IF = 2.807**)

## RESEARCH EXPERIENCE

**Soil Survey and Remediation Lab** July 2017 – Present

- Explored the application of portable X-ray fluorescence and Vis/NIR/SWIR spectroradiometers on elucidating soil genesis process
- Investigated the differentiation of podzolic soils in subalpine forests in Taiwan using selective extraction, micromorphology, and multivariate statistics
- Analyzed the distribution of Silicon availability and its difference in forest soils and paddy fields of Taiwan
- Carried out physical and chemical analysis on the soils from an archeological site for the department of Anthropology, NTU

## AWARDS & HONORS

**Honorable Mention for Academic Thesis Competition** May 2021  
*Annual Meeting of the Geography Society of China*

**Honorable Mention for Poster Competition** Nov. 2020  
*Annual Meeting of the Chinese Society of Soil and Fertilizer Sciences*

**Dean's List Award (Academic Excellence Award)** Oct. 2020  
*Top 5% of class in semester* Oct. & Apr. 2019  

- Demonstrated diligence on every subject Oct. & Apr. 2018
- Completed all credits with outstanding grades Oct. & Apr. 2017

**Hsin Tian Kong Long-term Scholarship** July 2019 – June 2022  
*1500 USD each semester*  

- Acquired financial support from the Cultural and Educational Foundation of the largest temple in Taiwan

## CONFERENCES EXPERIENCE

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### **Pedometric Webinar**

June 2021

*Oral presentation*

Virtual

- Webinar held by the Pedometrics commission of the International Union of Soil Sciences (IUSS)
- Topic: Characterization of podzolic soils using digital morphometrics in a subtropical subalpine forest of Taiwan

### **Annual Meeting of the Geography Society of China**

May 2021

*Oral presentation*

Virtual

- Topic: Characterization of podzolic soils in Shanlinshi using digital soil morphometrics

### **Annual Meeting of the Chinese Society of Soil and Fertilizer Sciences**

Nov. 2020

*Poster presentation*

Taichung, Taiwan

- Topic: Using Vis-NIR spectroscopy and pXRF to pedogenesis
- Presented research progress of a collaborative project with the Department of Geology, NTU

### **Conference of the East and Southeast Asia Federation of Soil Science Societies**

Nov. 2019

Taipei, Taiwan

*Oral presentation*

- Topic: Silicon availability and its relation to other properties of soils in Taiwan

### **Joint Seminar on Environmental Ecology and Restoration**

Aug. 2018

*Oral presentation*

Hakodate, Japan

- Joint seminar between NTU and Ishikawa Prefectural University
- Topic: Element composition of the colluvial soils at an archeological site from Linkou terrace, Taiwan
- Presented research progress of a collaborative project with the Department of Anthropology, NTU

## SKILLS

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### **Computer Programming**

- R & Python

### **Laboratory Instruments**

- Field-portable Vis/NIR/SWIR spectroradiometers (ASD FieldSpec 3)
- Portable X-ray fluorescence spectroscopy (Olympus DELTA Premium pXRF)
- Atomic absorption spectroscopy
- X-ray diffraction

## TEACHING EXPERIENCE

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### **Soil Science Lab (2020, 2021)**

Sept. 2021 – Jan. 2022

*Teaching assistant*

Sept. 2020 – Jan. 2021

- Organized weekly soil science lab lecture
- Delivered lectures on soil science and statistics

## EXTRACURRICULAR EXPERIENCE

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### **NTU Agricultural Chemistry Workshop (For Highschool Students)**

July 2019

*Director of Academic Department*

Taipei, Taiwan

- Organized seminar on the topic of "The Merits and Sins of Paraquat"
- Delivered lectures on soil analysis & soil chemistry

### **Overseas Community Affairs Council (OCAC, ROC)**

July 2018

*Participator of OCAC Youth Bridge Program*

London, UK

- Visited Taipei Representative Office (TRO) in the UK
- Discussed with the Representative (Ambassador) on the topic of youth education

### **Harvard World Model United Nations (MUN) 2017**

Mar. 2017

*Delegate of Iraq from NTU MUN Society*

Montreal, Canada

- Committee: World Health Organization (WHO)
- Topic: Reforming the Global Pharmaceutical Industry
- Contributed to the Draft Resolution that was adopted by the committee

