



CHENGZHENG YONG

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🏠 Homepage

Python

C++

Matlab

L^AT_EX

Markdown

English

German

🎓 EDUCATION

University of Science and Technology of China, Hefei, Anhui, China

2018 – Present

B.S. in Geophysics

👤 EXPERIENCE

Formation processes and material sources of terrestrial planets

2021 – Present

Research Project Advisor: Liping Qin, Yunzhao Wu

Brief introduction:

- Analyzing the material sources of Mars and use inverse algorithm to calculate its formation.
- Based on multi-spectral image.
- Already done approximately 5% of the work.

The final project of USTC Geoscience AI course

Jan. 2021 – Feb. 2021

Individual Project

This is a competition on Kaggle, see <https://www.kaggle.com/c/ustc-geo-ai20/leaderboard>

- This project aimed to design a convolutional neural network (CNN) for fault detection in seismic images.
- Using Tensorflow kernel, running on Huawei Cloud.
- I ranked 4th on the leaderboard.

The Preparation and Characterization of Calcite-Vaterite Complex

Nov. 2020 – Jan. 2021

Group Project Advisor: Rucheng Dai, Leader: Chengzheng Yong

This is a group project on a course called “College Physics Experiment”.

- We synthesized Calcite-Vaterite complex using sodium carbonate and calcium chloride.
- The variables are reaction time and the concentration of ethylene glycol(EG).
- Using XRD and SEM to characterize.
- We found the relation between the variables and the ratio of two phases, and tried to give a reasonable explanation based on the microstructure.

The Mechanism, Effects and Solutions of Solar Storm

Dec. 2018 – June 2019

Group Project Advisor: Huaiwei Ni, Leader: Zijin Zhang

This is a group project on a course called “Freshman Seminar”.

- Our main job was to survey related publications and write a review article.
- I contributed over 35% among 4 members.

♡ HONORS AND AWARDS

Zhao Jiuzhang Award (Top 25%)

Nov. 2020

3rd Prize, SEG Challenge Bowl, During APGSC (Preliminary)

Sep. 2020

Earth Science Climbing Award (Top 30%)

Nov. 2019

Touching Stories in the Volunteering Service

Oct. 2018