

# Yuhao Huang

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5760 Hastings Street, Burnaby, BC Canada V5B 1R6

## TECHNICAL SKILLS SUMMARY

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**Blockchain Techniques:** Knowledge of consensus mechanism, taxonomy, and smart contracts

**Decentralized Systems:** Knowledge of DAO, DID and Web3

**Software Applications:** Remix, Visual Studio Code, Axure, MS Office

**Programming:** C, C++, Python, MATLAB, Java, Solidity

**Languages:** English or Chinese

## RESEARCH EXPERIENCE

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### Study on prediction of research hot topics

Oct. 2019-Feb.2022

*Undergraduate Researcher* Supervisor: Prof. Yuchao Dai, Northwestern Polytechnical University

- Literature review on the development of computer vision technology and conduct predictive analysis.
- Investigate research hot topics by applying word2vec and LDA model analysis technique for data processing and build a dataset.
- Explore appropriate indicators to determine at which life cycle stage the research topic is and analyze reasons leading to the ascending and descending trend of it.

### Recognition of Urban functional areas based on POI Data

Apr. 2021-Apr.2022

*Undergraduate Researcher* Supervisor: Prof. Lijun Zhang, Northwestern Polytechnical University

- Provide assistance to people to get acquainted with urban functional areas, based on urban POI data by adopting the analytic theory of information bottleneck.
- Study on a new Clustering algorithm based on divergence and the theory of information bottleneck for functional areas.

### Cyber Security Cooperation Program from Canada Public Safety

Jan.2023-Present

*Graduate Research Assistant*

Supervisor: Prof. Feng Chen, UBC

- Conduct the literature review of fertilization between blockchain and social choice and promote a systematic infrastructure of blockchain system evaluation, which is tested on 10 existing voting systems.
- Conduct the research by using blockchain system as the foundation while using the existing transaction operations in the blockchain to carry the authentication, authorization, and accounting services.
- Implement blockchain-enabled decentralized security management system and release the API for the public to use the system for proof-of-concept purpose.

## EDUCATION

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### Bachelor of Engineering

Sept. 2018-Jun. 2022

Northwestern Polytechnical University

Dissertation: "Identifying Urban Functional Regions by LDA Topic Model with POI Data"

Sub-specialization: Computer Science and Technology

**Master of Applied Science in Electrical Engineering**

Jan.2023-present

University of British Columbia

Relevant technical courses: Internet of Things, FDN of BLOCKCHN, BLOC&DSTR LEDG