

# Chuang Yang

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## WORKING EXPERIENCE

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### LocationMind Inc.

Apr. 2020 – Present

*Research Intern (Part time)*

Tokyo, Japan

- Designed a fine-grained epidemic model to simulate the propagation dynamics in the Greater Tokyo Area.
- Integrated Stop Points Detection&Time Interpolation functions into HMM Map Matching Algorithm in Java.
- Joined [xPop](#) team and in charge of infrastructure operation and maintenance.

### SouthIntelligence Tech. Co. Ltd.

Jul. 2018 – Oct. 2018

*Software Engineering Intern (Full time), supervised by [Dr. Yilun Cai](#)*

Shenzhen, China

- Participated in building an elasticsearch-based macro policy search engine.
  - \* Designed and developed a mini web app for the interactive exploration of elasticsearch scoring function.
  - \* Developed part of search engine queries.
  - \* Built a Python script for deployment in production environment.
  - \* Developed the background master control program (MCP) in Python.

### Database Group@SUSTech

Oct. 2017 – Jul. 2019

*Undergraduate research assistant (Part time), supervised by [Prof. Bo Tang](#)*

Shenzhen, China

- Teacher Assistant for CS302 Operating System, Spring 2019, CSE@SUSTech
- Proposed a data visualization system, named [Vaite](#).
  - \* Published at IEEE ICDE 2019 in first author.
  - \* A visualized assisted exploration system to help users discover useful insights from big trajectories.
  - \* Oriented towards users without experience or knowledge on issuing their analysis tasks by SQL like queries.
  - \* Driven by Apache Spark, thus supports near real time response.

## PUBLICATIONS in DATA VISUALIZATION

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- **Chuang Yang**, Zhiwen Zhang, Zipei Fan, Renhe Jiang, Quanjun Chen, Xuan Song, Ryosuke Shibasaki. EpiMob: Interactive Visual Analytics of Citywide Human Mobility Restrictions for Epidemic Control. *arXiv preprint arXiv:2007.03180v2*, Jan. 2021. [[pdf](#)] [[demo video](#)]
- **Chuang Yang**, Renhe Jiang, Ryosuke Shibasaki. MaaS System Visualization. *Big Data and Mobility as a Service 9*, 245-263, Elsevier, To Appear, 2021.
- Zipei Fan, **Chuang Yang**, Zhiwen Zhang, Xuan Song, Yinghao Liu, Renhe Jiang, Quanjun Chen, Ryosuke Shibasaki. Human Mobility based Individual-level Epidemic Simulation Platform (Extended News Letter). *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, To Appear, 2021.
- **Chuang Yang**, Yilan Zhang, Bo Tang, Min Zhu. Vaite: a Visualization-assisted Interactive Big Urban Trajectory Data Exploration System. *Proc. of the 35th IEEE International Conference on Data Engineering (ICDE)*, Macau, China, Apr. 2019.[[pdf](#)]

## EDUCATION

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### Center for Spatial Information Science, The University of Tokyo

Sept. 2020 – Sept. 2022 (Expected)

*M.S. degree in Socio-Cultural Environmental Studies*

Kashiwa, Japan

*Supervised by [Prof. Ryosuke Shibasaki](#) and [Prof. Renhe Jiang](#)*

### Center for Spatial Information Science, The University of Tokyo

Oct. 2019 – Aug. 2020

*Research Student*

Kashiwa, Japan

*Supervised by [Prof. Ryosuke Shibasaki](#) and [Prof. Renhe Jiang](#)*

### Southern University of Science and Technology

Sept. 2015 – Jun. 2019

*B.S. degree in Computer Science*

Shenzhen, China

## COMMUNITY SERVICES

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- Program Committee Member for [ECML/PKDD 2021](#)
- Reviewer for [IEEE TITS 2021](#)
- Subreviewer for ACM SIGSPATIAL 2021

## SKILLS

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- **Languages:** Python, JavaScript(ReactJS, JQuery), HTML/CSS, SQL, Java, Scala
- **Data Visualization Tools:** Leaflet.js, Deck.GL, Recharts, Material-UI, D3.js
- **Big Data Processing Tools:** Apache Spark SQL
- **Data Exploration Tools:** Lux
- **Development Framework:** Django (Python), Flask-RESTful (Python), Play (Scala)
- **Others:** Elasticsearch, Linux Commands