Curriculum Vitae

**Identification**

Name：JINYOU LI，www.linkedin.com/in/jinyou-li-uroc

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Present Address：Apt 306, 13 S Fitzhugh Street, Rochester, NY 14614 United States

Permanent Address：C902, No. 3, Jing An Road, Binjiang Street, Haizhu District, 510220，Guangzhou, GD

**Education：**

**University of Rochester *Rochester, NY***

*Bachelor of Science in Data Science**Aug 2022 – Expected Dec 2024*

**GPA:** 3.18-3.40/4.00;

**City University of Hong Kong *Hong Kong, China***

*Bachelor of Science in Data Science & Energy Science and Engineering* *Aug 2020 - Jun 2022*

**GPA**: 3.38/4.00;

**Relevant Courses**: Data Mining, Database Systems, Statistical Machine Learning, Data Structures & Algorithms, Computation & Formal Systems, Operations Research, etc.

**WORK EXPERIENCE**

**Department of Political Science at University of Rochester，333 Harkness Hall，Rochester, NY 14627-0146**

*The impact of research misconduct within scientific communities. Research Assistant Sep 2024 to 2025*

Involved designing and implementing data collection strategies to gather large-scale datasets from scientific citation networks, utilizing web scraping and API integration, assisted in developing statistical tests to analyze the effects of scientific error or misconduct accusations on the progression of scientific research. i.e. work with the Wikipedia API to search for pages by using Python that are the most plausible match for a list of names and then scrape various features of those pages, i.e. every location that is mentioned on an individual's biography page.

Mentor: *Assistant Professor* [*Casey Petroff*](mailto:Casey%20Petroff) *，[cpetroff@ur.rochester.edu](mailto:cpetroff@ur.rochester.edu，Phone)*[，Phone](mailto:cpetroff@ur.rochester.edu，Phone) 1585-275-4291

**RESEARCH EXPERIENCE & INTERNSHIPS**

**South China Sea Fisheries Institute of the Chinese Academy of Fishery Sciences *Guangzhou, China***

*The Remote Sensor Application in Fishery Forecast - Research Assistant &Internship Researcher*  *Jan 2022 - Aug 2024*

* Leveraged advanced data collection and analysis techniques to visualize the fishing vessels in the Central-Eastern North Pacific/Beibu Gulf by using data from three techniques that monitor the fishing vessels: Automatic Identification System (AIS), Synthetic Aperture Radar (SAR), and nighttime light remote sensing.
* Utilized the YOLO (You Only Look Once) model to accurately identify and count the number of fishing vessels in satellite images showing nighttime light of the fishing vessels, even in conditions with thick clouds and strong moonlight.
* Visualized seasonal variations and differences across the Central-Eastern North Pacific/China and Vietnam by obtaining the accurate locations and numbers of fishing vessels.
* Analyzed parameters such as light intensity and cloud cover to understand these variations better.
* Utilized various algorithms and predictive modeling tools to forecast the potential geographical distribution of vessels under current and future environmental conditions.
* Examined the changes in the economy and the impact of COVID-19 to explain the differences of fishing vessels across different years and gain a deeper understanding of the fishery resources in the Beibu Gulf.

*Mentor：Jiajun Li，Email：[lijiajun@scsfri.ac.cn](mailto:lijiajun@scsfri.ac.cn)*, Phone:8615622103313

8 months, 20hr/week

**South China Sea Institute of Oceanology of the Chinese Academy of Sciences *Guangzhou, China***

*The global distribution of marine ornamental fishes and invasion risks assess --Internship Researcher Jun 2023 - Aug 2023*

* Constructed species distribution models (SDMs) for more than 300 marine ornamental fish species.
* Collected, pre-processed and analyzed data with the application of advanced ecological modeling techniques
* Utilized various algorithms and predictive modeling tools to forecast the potential geographical distribution of these species under current and future environmental conditions.

*Mentor：Zhixin Zhang，Email：[zhangzhixin1102@hotmail.com](mailto:zhangzhixin1102@hotmail.com)*, Phone:8616626701102

2Mons, 25hr/W

**South China Sea Institute of Oceanology of the Chinese Academy of Sciences *Guangzhou, China***

*Land-ocean Data Visualization Model of Greater Bay Area --Internship Researcher May 2021 - Aug 2021*

* Completed all the python programing parts for interpolating irregular cruises data of sea temperature and salinity onto the regular grid using multiple statistical methods;
* Validating numerical modelling results with cruise observations; graphic and visualizing model validation results;
* Writing reports for the model-observation data comparison results.
* Designed the “Verification System of Land-ocean Data Visualization Model of Guangdong-Hong Kong-Macao Greater Bay AreaV1.0”.

*Mentor：Yang Feng，Email：[Fyang@scsio.ac.cn](mailto:Fyang@scsio.ac.cn)*, Phone: 8618924078644

*3.3Mons,35hr/w*

*Research Progress in Marine Biological Nitrogen Fixation - Student Researcher Dec 2020 – Jan 2021*

* Collected, pre-processed and analyzed data from literatures for previously research on marine diazotrophs and relative Biological Nitrogen Fixation techniques and translate English into Chinese.
* Visualized the data of Number of published articles on marine nitrogen fixation every year (a) and national publications (b) retrieved by web of science.
* Made table displayed the important events in the history of marine biological nitrogen fixation
* Delved into ecological models and the intricacies of the carbon-nitrogen cycle.

*Mentor：Liu Jiaxing，Email：[ljx2ljx@scsio.ac.cn](mailto:ljx2ljx@scsio.ac.cn)*, Phone:8618027212056

**GRANTS/HONORS/AWARDS**

**Honors**:

* **Dean’s List, 2023 Fall.** The dean of the College and the Hajim School of Engineering & Applied Sciences University of Rochester.

To be placed on the dean’s list, a student must have an overall semester grade point average (GPA) of 3.4;Completed 16 or more credit hours, at least 12 of which have normal letter grades (A through E), with no “I” or “N” grades

* **Dean’s List,June,2021**，School of Data Science, City University of Hong Kong, with level of GPA 3.6 or above.

**Awards:**

* HK TECH Tiger. Issued by City University of Hong Kong Sep.17,2021.

Associated with Top 10 of DS Department, City University of Hong Kong. The Talents Program (HK TECH Tiger) is launched to bring together high-flying students to pursue intellectual excellence and develop their potential to become future world leaders.

* The bronze medal of MOBA games with teammates in the 2021 Hong Kong Nine School Esports League.

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* Jiajun Li , **Jinyou Li** , Kui Zhang , Xi Li , Zuozhi Chen，Enhanced Fishing Monitoring in the Central-Eastern North Pacific Using Deep Learning with nightly remote sensing. *Remote Sens*. 2024, Accepted.
* **Jinyou Li**，Zhao Meng，Yang Feng，Lin Luo，2021， Verification System of Land-ocean Data Visualization Model of Guangdong-Hong Kong-Macao Greater Bay AreaV1.0， The computer software copyright. Registration No.2021SR1736500. Authorization by National Copyright Administration of China.
* Zhihong,Li **Jinyou Li**, Liu Jiaxing，Research progress on marine biological nitrogen fixation, Ecological Science, 2021,（5）215-230（In Chinese）.

**Work Submitted/Work in Progress**

* Jiajun Li , **Jinyou Li** , Kui Zhang , Xi Li , Zuozhi Chen，Variations in Fishing Activities in the Beibu Gulf Observed Through Nighttime Light Remote Sensing. In preparing

**PRESENTATIONS/MEETING ABSTRCT**

* Presented on the crucial topic of “carbon dioxide's role in climate change “at the City University of Hong Kong, demonstrating my commitment to interdisciplinary learning and communication in environmental science.

**LEADERSHIP EXPERIENCE****CityU HK Undergraduate Program Committee*****Hong Kong, China***

*Student Committee Member Sep 2020 - Jun 2022*

* Discussed the concerns raised by students, and conveyed them to the relevant program committee or departmental committees for further action.

**OTHER INFORMATION**

* **Computer skills**: Python, C++, R, Java, Kotlin, SQL, Matlab, Excel, etc
* **Languages**: Mandarin (Native), Cantonese (Native), English (Fluent)
* **Interests**: Skiing, Reading, BOMA games