## Sigao(Peter) Li

Business Analyst/Data Analyst

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SigaoLi

Sobu.com Limited - Beijing, BJ, CN

EDUCATION	J

Jun 2024	Summer School in Economic Networks	University of Oxford - Oxford, EN, UK
May 2024	Certificate in Artificial Intelligence	University of Toronto - Toronto, ON, CA
Dec 2023	Certificate in Data Science University of Waterloo	ರ ಆ University of Toronto - Kitchener, ON, CA
Oct 2023	Master of Spatial Analysis in Spatial Analysis <i>Toronto Metropolitan University</i> - Toronto, ON, CA  • Major Research Paper: Analyzing Lowe's Failure in Canada from a Geographical Perspective	
Jun 2022	<ul> <li>Bachelor of Arts(Honours) in Geographic Analysis</li> <li>Individual Research Paper: The Impact of Population Distribution Ethnic Retail Location</li> </ul>	Ryerson University - Toronto, ON, CA ation in the Toronto Census Metropolitan Area

## **RESEARCH EXPERIENCE**

Mar 2024 -Research Assistant Cognitive Aging Lab & Toronto Metropolitan University - Toronto, ON, CA

Present Analyzing survey data from the Active Aging Training Project's focus groups, and developing Python automation scripts to speed up the research process.

Proofread the Future Thinking Project questionnaire and provide technical support.

Sep 2022 -Research Assistant Ryerson University - Toronto, ON, CA

Dec 2022 · Analyzed survey data using exploratory spatial data analysis and regression analysis to examine the correlation between store accessibility, consumption frequency, and consumer health status.

> Enhanced business address accuracy by Geocoding with Google APIs, and modelled consumer trajectories with network analysis(origin-destination matrix model) using ArcGIS Pro.

Jul 2022 -Research Assistant Ryerson University - Toronto, ON, CA

Aug 2022 • Engineered a Python automation tool for spatial ETL pipeline that aggregates Toronto GTA election results and identifies the race of candidates for use in examining electoral diversity and inclusion.

Conducted exploratory spatial data analysis and created Excel pivot tables for data interpretation.

## INTERNSHIP EXPERIENCE

**Product Analyst** 

Aug 2021

Jun 2021

Feb 2021 -

Jan 2023 -Geospatial Data Analyst PiinPoint - Kitchener, ON, CA

Apr 2023 Build an urbanization index with QGIS and applied circular method for market screening, implemented clustering algorithms for customer segmentation, optimizing the retail network by 15%.

> • Integrated machine learning algorithms into traditional GIS workflows and revamped enterprise database schema with Devbox, enhancing operational efficiency by 30%.

Jun 2021 -**Business Analyst** iQIYI, Inc. - Shanghai, SH, CN

> Conducted market research on "How to transform film and television entertainment intellectual property into offline business ventures", and "emerging trends in large Brick-and-Mortar complexes".

 Devised data-driven site selection strategies that guided corporate transformation initiatives, and presented comprehensive demonstration reports to company executives.

Apr 2021 -MioTech - Shanghai, SH, CN

> Conducted ESG research by leveraging Excel for web scraping data from government and revenue agencies, reducing data collection time by 50%.

Created various analytical dashboards using Excel and BI software to depict key KPIs.

 Performed diagnostic analysis of user behaviour, identifying trends and patterns, boosting user Apr 2021

engagement and retention by 20%.

 Collaborated with the development team on competitive research, creating detailed reports that directly contributed to the development of new features.

PROJECTS —		
Jan 2024 – Apr 2024	Intelligent Agent for Portfolio Strategy Optimization GitHub Link  • Designed a stock trading agent using transformer models for price prediction, genetic algorithms and modern portfolio theory to achieve strategy optimization that maximizes risk-adjusted returns.	
Sep 2023 – Dec 2023	Forest Fire Monitoring Using Deep Neural Network  • Transformed satellite imagery into NLP features and developed a CNN model that utilized batch normalization, dropout, and data augmentation for wildfire detection, achieving over 97% accuracy.	
Sep 2023 – Dec 2023	<ul> <li>Real-Time Credit Card Fraud Detection GitHub Link</li> <li>Integrated Apache Kafka and Pyspark for real-time data streaming and distributed data processing, and leveraged custom MLlib transformers and FNN models to detect fraud with an accuracy of 99%.</li> </ul>	
VOLUNTE	ERISM —	
Apr 2024 – Present	<ul> <li>Director, GISource</li> <li>Helping students interested in professional development and graduate programs access up-to-date information on global M.S./Ph.D. opportunities.</li> <li>Published over 40 blogs about GIS-related program applications with more than 50,000 reads.</li> </ul>	
Sep 2023 – Present	<ul> <li>Project Developer</li> <li>Leading a team of 4 using Agile methods to design an Azure-based ETL pipeline to scrape and load Google Sheet data into a MySQL database, reducing task time by 80%.</li> <li>Collaborating with a cross-functional team in the development and deployment of a custom LLM chatbot based on multiple AIGC platforms for information collection and technical support.</li> </ul>	
May 2022 – Present	<ul> <li>Campus Partner</li> <li>Promoted strategic cooperation with Esri China, and organized the "GIS Open Course Week for International Students" event.</li> <li>Co-produced "GISphere Study Abroad Guide - Big Data Report White Paper(2023)".</li> </ul>	
Aug 2021 – Aug 2022	<ul> <li>Campus Ambassador GeoScene Information Technology Co. Ltd - Beijing, BJ, CN</li> <li>Spearheaded international promotional campaigns, expanded outreach to over 300 universities worldwide and attracted more than 10,000 event attendees, achieving a 15% increase in promotional material downloads.</li> </ul>	
HONOR &	AWARDS —	
Aug 2023	Canadian Cartographic Association Mapping Competition • President's Prize Winner(1st) at University Level	
May 2023	Graduate Development Award(\$700)	

Aug 2023	• President's Prize Winner(1st) at University Level
May 2023	Graduate Development Award(\$700)
Sep 2022	Arts Grad Funding Spatial(\$5,000)
Jun 2022	Dean's List   Faculty of Arts(2021-2022)
May 2021	Global University Python Quantitative Simulation Investment Competition • Individual Final: 6 <sup>th</sup> ; Group Semi-finals: 3 <sup>rd</sup>
Aug 2020	<ul> <li>GLO-BUS Business Strategy Simulation</li> <li>Ranked into "Global Top 50 Performance Criteria"</li> </ul>
Sep 2018	Guaranteed and Renewable Scholarship(\$500)

## **TECHNICAL COMPETENCIES**

Data Analytics:Python, R, JavaScript, HTML, CSS, SQL, NoSQL, Databricks, Hadoop, Azure, AWS, Git, LinuxFrameworks:PyTorch, TensorFlow, Keras, scikit-learn, NLTK, Pyspark, GeoPandas, ArcPy, Matplotlib, SeabornSpatial Analysis:ArcGIS, ArcMap, QGIS, MapInfo, PCI Geomatica, AutoCAD, Civil 3D, GeoDa, SPSS, Survey123Others Tools:Tableau, Power BI, Alteryx, Google Analytics, MS Office Suite, Adobe Suite, PTC Creo, SketchUp