

# JIE NIU (牛偲)

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## 🎓 EDUCATION

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### Queen's University at Kingston

2017 – 2022

*Bachelor of Computing (Hon.)* specialize in Computer Science and Mathematics

## 🏛️ ACADEMIA EXPERIENCE

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### St. Lawrence College Kingston, ON

Jan. 2023 – Present

#### *Adjunct Instructor*

COMP 53 – Intermediate Database

- Teach beginning to intermediate SQL concepts for database design and querying;
- Facilitate class discussions in-person and online hybrid;
- Expose students to advanced database topics.

### Smith School of Business, Queen's University, Kingston, ON

Jan. 2022 – Present

#### *Research Assistant*

Deliver technical components to support research projects.

##### *Past and Current Projects:*

- Data Mining on Bloomberg Terminal together with financial databases (WRDS). Write automated scripts to extract and update current corporate credit ratings and storage in database. Tools used: R, PostgreSQL.  
Supervisor: *Prof.* Evan Jo
- Process and analyze research data studying retirement, longevity, and annuity price. Implement virtual file system for file storage in database. Tools used: Linux HPC.  
Supervisor: *Prof.* Evan Jo
- Web scraping to extract financial data and comment on Yahoo Finance. Build time series on scraped data and perform sentiment analysis on user conversations. Tools used: R.  
Supervisor: *Prof.* Jingyu Zhang

### Smith School of Business, Queen's University, Kingston, ON

Jan. 2022 – Present

#### *Teaching Assistant*

- COMM 420 (Financial Technology and Innovation, Winter 2022)  
Grade assignments; troubleshoot and hold workshop for R programming in quantitative trading.  
Supervisor: *Prof.* Evan Jo
- COMM 161 (Intro. To Mathematical Analysis, Fall 2022)  
Head TA - oversee grading process; prepare weekly tutorials; maintain student records.  
Supervisor: *Prof.* Matthew Thompson
- MGMT 921 (Capital Markets, Theory and Empirics, Winter 2022 & 2023)  
Hold workshops and tutorials on R, Python, PostgreSQL and financial database (WRDS).  
Supervisor: *Prof.* Evan Jo
- COMM 493 (Analytics & AI for Business, Winter 2023)  
Grade business case and coding assignments; create technical documents for students.  
Supervisor: *Prof.* Shaun Cahill

## PROFESSIONAL EXPERIENCE

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**Smith School of Business**, Queen's University, Kingston, ON

Apr. 2021 – Present

### *Administrative Assistant*

Support School of Business Professors. Work in PeopleSoft, maintain course websites through D2L, prepare expense claims, manage supplies, and other duties as required.

**Kingston Online Services**, Kingston, ON

Jan. 2021 – Apr. 2021

### *Technical Support Representative*

Troubleshoot and assist customers with their internet connection. Responsible for configuring and preparing hardware for customers, and responding to support tickets in a help desk.

## SKILLS

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- Writing:  $\text{\LaTeX}$
- Programming Languages: R == SQL > Python == C > Java
- Platform: Mac; Linux; HPC Clusters (*High Performance Computing*)
- Development: Containers (Docker, Podman, Singularity), Web Development (Django, Flask, R Shiny)

## HONORS AND AWARDS

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Queen's University Excellence Scholarship

Sep. 2017

## MISCELLANEOUS

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- Notable undergraduate courses:  
Logic for Computer Science, Calculus III, Graph Theory
- Languages: English (Professional), Mandarin (Native)