

# Xiao Fischer

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## SUMMARY

Data Science Master's student eager to apply innovative solutions to complex problems in robotics and automation. Experience includes designing experiments, optimizing data processing with Python and SQL, and communicating findings effectively. Strong collaboration skills developed through multi-disciplinary teamwork in research environments. Presented at conferences, developed visual tools for data analysis, and built algorithms that improved performance. Passionate about enhancing customer experiences through data-driven insights. Seeking opportunities where creativity and analytical skills drive impactful results in robotic systems.

## EDUCATION

**Master of Science in Data Science**  
Boston University   GPA: 3.8  
*Coursework: Machine Learning, Statistical Analysis, Data Visualization, Robotics*

2026  
Boston, MA

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL
- **Data Analysis Tools:** Pandas, NumPy, SciPy
- **Machine Learning Frameworks:** Scikit-learn, TensorFlow, Keras
- **Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Robotics Libraries:** ROS, OpenCV, PCL
- **Statistical Software:** RStudio, SAS
- **Database Management:** PostgreSQL, MySQL, SQLite
- **Big Data Technologies:** Hadoop, Spark, AWS
- **Project Management Tools:** Trello, JIRA, Asana
- **Version Control Systems:** Git, SVN, Mercurial

## SKILLS

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|--------------------|-------------------------------|-----------------------|-------------------------|
| • Machine Learning | • Natural Language Processing | • Robotic Systems     | • Algorithm Development |
| • Python           | • A/B Testing                 | • Automation Tools    | • Experiment Design     |
| • SQL              | • Data Visualization          | • Performance Metrics | • Process Improvement   |
| • Data Analysis    | • Statistical Analysis        | • Data Mining         |                         |

## EXPERIENCE

**Robotics Data Science Intern**  
University Research Lab

June 2025 - Present  
Cambridge, MA

Focused on advancing data science applications within robotics. Collaborated with faculty and peers, leveraging expertise in machine learning and programming languages like Python and SQL to enhance operational strategies.

- Designed and implemented machine learning models for optimizing robotic processes, significantly improving efficiency.
- Conducted experiment analyses in robotics, contributing new algorithm developments for data processing.
- Utilized data querying via SQL for extraction and analysis, enhancing system performance insights.
- Effectively communicated research outcomes at university events, simplifying complex concepts for varied audiences.
- Developed visualization tools for large datasets, making information accessible for non-technical stakeholders.
- Collaborated across teams to develop strategic plans for future research initiatives.

**Capstone Project Developer**  
University Project

January 2025 - May 2025  
Boston, MA

Led a team focusing on machine learning enhancements in robotic navigation systems. Fostered environment emphasizing cooperation, innovation, and rigor.

- Spearheaded capstone project applying machine learning techniques to improve navigation accuracy for robotics.
- Performed detailed data preprocessing and wrangling, ensuring optimal model training conditions.
- Engaged industry mentors, refining findings based on real-world feedback to iteratively improve project outcomes.

- Implemented A/B testing metrics for comprehensive model evaluation, resulting in substantial accuracy gains.
- Authored thorough documentation of methodologies, informing assessment protocols and future enhancements.

**Research Assistant**

September 2024 - December 2024

Academic Research

*Boston, MA*

Supported groundbreaking research in natural language processing as it relates to robotics, streamlining processes and enhancing communication capabilities.

- Facilitated research focused on NLP applications, contributing innovations within robotics frameworks.
- Analysed both qualitative and quantitative datasets, generating actionable insights supporting research goals.
- Interacted closely with academic faculty to refine research methodologies and experimental designs.
- Automated extensive data analysis procedures through scripting, elevating overall research efficiency and quality.
- Cultivated teamwork dynamics by sharing knowledge and best practices among fellow researchers.

**LEADERSHIP & AWARDS**

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- Dean's List, Fall 2024, Spring 2025
- First Place, University Hackathon, 2025

**CERTIFICATIONS**

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- Data Science Professional Certificate 📅 2025
- Python for Data Science 📅 2025

**PROFESSIONAL AFFILIATIONS**

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- Member, Data Science Society, 2024 – Present
- Volunteer, Computer Science Club, 2023 – Present

**LANGUAGES**

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- English (Native)
- Mandarin (Proficient)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST