

Zoey (Ziyi) Sun

AI PhD Candidate

Wellington, New Zealand

CONTACT

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ABOUT ME

I am a data scientist in the final stages of my PhD at VUW, collaborating with Manaaki Whenua – Landcare Research on advanced tree crown segmentation using AI. My internship at Callaghan Innovation involves contributing to cutting-edge LLM projects like GovGPT and PaperBoi. Now, I seek roles where I can apply my AI expertise to create innovative solutions with industry impact.

SKILLS

- Coding
- Data Analysis
- Machine Learning
- Computer Vision
- Critical Thinking
- Problem Solving
- Interpersonal skills
- Team work

EDUCATION

- Ph.D. in Artificial Intelligence**
Victoria University of Wellington, New Zealand
2021 - 2025
- Master in Computer Application Technology**
Shandong University of Finance and Economics, China
2018 - 2021
- Bachelor in Digital Media Technology**
Shandong University of Finance and Economics, China
2014 - 2018

INTERESTS

Fishing, hiking, cycling, badminton, reading, traveling

REFERENCES

References available upon request

EXPERIENCE

- Research Assistant**
Victoria University of Wellington | New Zealand
Mar 2025 - Present
- Intern at Digital & AI Team**
Callaghan Innovation | New Zealand
Sept 2024 - Mar 2025
- AI Researcher**
Victoria University of Wellington | New Zealand
Oct 2021- Feb 2025

PROJECT

- GovGPT**
Callaghan Innovation
Sept 2024 - Mar 2025
New Zealand
 - Designed AI chatbot “GovGPT” to help New Zealanders easily access information about government services and policies.
 - Tech Stack: Python, Github, Azure, OpenAI API, LLMs, RAG
- PaperBoi**
Callaghan Innovation
Sept 2024 - Mar 2025
New Zealand
 - Developed “PaperBoi”, a scientific literature AI agent using LLMs that enables companies and the public to understand research findings and expertise from NZ institutions.
 - Tech Stack: Python, Gitlab, AWS, Google Cloud, GraphRAG
- YOLO for Tree Crown Segmentation**
Manaaki Whenua – Landcare Research
Oct 2021 - Feb 2025
New Zealand
 - Developed advanced YOLO models for tree crown segmentation.
 - Achieved precise tree crown prediction with improvements of 10% in detection and 8% in segmentation accuracy, with publications in journals.
 - Tech: Computer Vision, Data Analysis, Machine Learning, Deep Learning
 - Tech Stack: PyTorch, Matplotlib, OpenCV, Scikit-learn, Pandas, NumPy, Scipy
- Glass Flaw Detection and Positioning System**
Feb 2021 - Aug 2021
China
 - Built machine learning pipeline for automated glass defect detection.
- Automotive Wheel Hub Weld Seam Positioning System**
May 2020 - Nov 2020
China
 - Built targeted YOLO models to detect weld seams on wheel hubs.