Yiwen Mei

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EDUCATION

China Agricultural University

Beijing, China

Bachelor of Engineering in Computer Science and Technology

Sept. 2020-Jul. 2024

- **GPA**: 3.61/4.0
- **Core Courses**: Advanced Math, Computer Programming, Data Structure, Computer Graphics, Software Engineering, Algorithms Design and Analysis, Artificial Intelligence, Computer Networks, Data Mining

The University of Nottingham Ningbo China

Ningbo, China

Summer Program (Academic English, Workshop, Enterprise Visit)

Jul. 2022

HONORS & AWARDS

Dec. 2021	
Dec. 2021	
Sept. 2021	
Jun. 2021	
Jun. 2021	
Third Prize, The 12th Lanqiao Cup National Software and Information Technology Professional Talent	
May 2021	
)	

RESEARCH EXPERIENCE

Object Rotation Detection Based on 3D Point Clouds

Oct. 2023-Jun. 2024

(Undergraduate Thesis) | Advisor: Prof. Lili Yang

- Deeply analyzed 3D point clouds and developed a tool for object orientation prediction and labeling
- Created a dataset by collecting 1,191 samples with angle labels using Lidar, preprocessed and clarified the data, trained the dataset using PointNet++, and obtained a data visualization with clear labeling

Study on the Classification of Lettuce Nitrogen Levels Based on the Integration of Hyperspectral and Image Features May 2023-Apr. 2024

(National College Student Innovation and Entrepreneurship Project) | Advisor: Prof. Minjuan Wang

- Aimed to develop a feature fusion-based convolutional neural network for the improvement of classifying lettuce nitrogen levels by integrating hyperspectral and image features
- Conducted plant experiments, gathered hyperspectral data, and wrote programs to preprocess the acquired RGB images to enhance the quality and extract relevant information

Data Collection System for Three-Dimensional Cultivation Plant Factory

May 2022-Apr. 2023

(CAU College Student Innovation and Entrepreneurship Project) | Advisor: Prof. Minjuan Wang

- Designed a crop image acquisition system used in three-dimensional cultivation in plant factories to collect crop images for crop growth monitoring and disease analysis
- Completed modeling in SolidWorks, devised data collection device, established communication between upper computer software and the microcontroller, processed images, and designed UI components

INTERNSHIP

Easthome Beijing Consulting and Service Co., Ltd.

Feb. 2024-Mar. 2024

Post: Intern (Product Manager)

- Led a team to develop an English vocabulary app that incorporates features including user management, various learning modes, vocabulary management, progress tracking, etc.
- Contributed to UI design and software testing, prepared and delivered product release presentation, and launched the app successfully

PATENTS

Methods and Related Equipment Technology to Identify Agricultural Pests Based on Object Detection Technology (Patent No.: CN114926720A)

Oct. 2021- May 2022

- Inventors: Chunli Lv, Yan Zhang, Shuihai Zhang, Yiwen Mei, Xinyu Yang, Manzhou Li
- **Description**: Developed various methods and a portable handheld device using object detection technology, which can detect and identify agricultural pests and collect visible light image data

A Method and Related Equipment for Detecting Various Diseases in Plant Leaves

(Patent No.: CN114972852A)

Oct. 2021- May 2022

- Inventors: Chunli Lv, Yan Zhang, Manzhou Li, Shuihai Zhang, Xinyu Yang, Yiwen Mei, Yufei Ren
- **Description**: Developed a method to diagnose diseases in plant leaves and provide corresponding solutions using a Convolutional Neural Network (CNN) model

PROJECTS

Deep Learning-Based Weather Image Recognition

May 2023-Jun. 2023

- Clarified weather images into categories based on Convolutional Neural Network (CNN) using transfer learning and data augmentation
- Conducted comparative analysis of training results of CNN, VGG, and ResNet models, improved models, and achieved the optimal model with an accuracy of 90%

Data Structure and Algorithms Visualization Platform

Jun. 2022-Aug. 2022

- Built a knowledge graph platform using Qt to visualize course content on data structures and algorithms
- Designed features such as knowledge graph visualization in the homepage, keyword search, and knowledge points categorization, and successfully registered copyright for the software

Bookstore E-commerce Management System

May 2022-Jun. 2022

- Developed an E-commerce Management System utilizing book data and member profiles, allowing users to navigate books by category, shop, place orders, and give feedback.
- Integrated management tools for books, retailers, customers, and tracking search insights and orders.

ACTIVITIES

Volunteer: Tsinghua University Press

May 2022-May 2024

• Supported the development of the programming question bank by setting questions and improving answers for the Computer Teaching and Industrial Practice Resource Construction Committee (TIPCC)

Trainee, NVIDIA & XSUPERZONE Skills Training for Full-Stack AI Developer

Sept. 2023

-Introducing Synthetic Data Generation

• Engaged in the training program to learn the implementation, programming, and training of a four-class obstacle avoidance dataset, finished programming experiment, and was awarded a completion certificate

Trainee, Baidu Pinecone School

Jan. 2022-Dec. 2022

- Passed the selection exam and got admitted into the Baidu Pinecone Talent Development Elite Class
- Took online programming courses, honed programming skills, and received a certificate of completion

SKILLS

Languages: Chinese (Native), English (Proficient)

Programming skills: C, C++, Python