Haozhou Wang ()

Project Research Assistant, Laboratory of Field Phenomics, Graduate School of Agricultural and Life Sciences, The University of Tokyo.

☑ haozhou-wang@outlook.com

• haozhou.wang

• HowcanoeWang

≈ 365 citations, h-index 8

Research Interests

- High-throughput plant 3D phenotyping.
- o Digital twin virtual plant model and multi-sensory data fusion.
- Open-source agricultural phenotyping tool and dataset development.

Z

Featured Projects and Publications

3DPotatoTwin dataset

huggingface dataset **∠**

Dataset intended to help train and benchmark multi-sensory fusion and shape completion algorithms specifically for applications involving actual potato tuber harvesting.

- o wang_3dpotatotwin_2025
- Citations: 0; Reported by

Broccoli harvest date prediction application

github repo

A demonstrable application of aerial phenotyping technology to assist farmers in optimizing financial returns and minimizing food waste.

- \circ wang_dronebased_2023
- ∘ Citations: 21; Reported by EurekAlert! ∠,
- ☑, and ☑

EasyIDP intermediate data processing tool

github repo

A handy tool for dealing with region of interest (ROI) on the image reconstruction (Metashape & Pix4D) outputs, mainly in agriculture applications.

- \circ wang_easyidp_2021.
- o Citations: 40; Github stars: 47; Tools Used: Python, PyPi, Readthedocs;

UAV-HiRAP data processing platform

uav-hirap.org **∠**

An open-source and web-based platform which provides service for image classification.

- \circ wang_landscape_2019
- o Citations: 45; Tools Used: Python, Flask, Bootstrap, Nginx;

Professional Positions

Project Research Assistant

Tokyo, Japan

The University of Tokyo

Oct. 2023 -present

- Aerial sensing system for detecting abnormal potatoes and guiding in-field positioning.
- A 3D paired potato tuber dataset for close-range multi-sensor data fusion.
- $\circ \ \ \text{Integration of Metashape stag-markers for occlusion-tolerant high-quality in-field reconstruction}.$
- Structural modeling and growth prediction framework for 3D virtual plants and digital twin.

Education

The University of Tokyo

Oct. 2020 -Sept. 2023

Doctor in Agricultural Science

Thesis title: Studies on 3D-based plant phenotyping by multi-scale data fusion.

The University of New Brunswick

Sept. 2017 -Dec. 2019

Master of Science in Forestry

Thesis title: Estimating Forest Attributes from Spherical Images.

The Nanjing Forestry University

Sept. 2013 -Jun. 2017

Bachelor of Science in Ecology

Thesis title: Extracting DBH Measurements from RGB Photo Images.

Publications

 ${\it Book\ Chapters}\ (0\ {\rm entries})$

 ${\it Patent} \ (0 \ {\rm entries})$

Journal articles (0 entries)

 ${\color{red} \boldsymbol{Conference~proceedings}}\;(0\;\text{entries})$

Awards

The 6th CIGR international conference young researcher travel award.	$May\ 2024$
The 12th JSAI () young researcher innovation award.	$May\ 2021$
The third prize of the 8th Liang Xi youth paper award ().	Nov 2020
The first place for oral presentation on 25th UNB GSA Conference.	May 2018