

# Haoyu (Andrew) Wang

PH.D. STUDENT · GRADUATE RESEARCH ASSISTANT

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## Education

### University of Texas at Austin

PH.D. STUDENT. ADVISOR: JENNIFER A. MILLER

Austin, TX

Aug. 2021 - present

- First year Ph.D. student in Geography

### University of Michigan – Ann Arbor

MASTER OF SCIENCE. ADVISOR: MEHA JAIN

Ann Arbor, MI

Aug. 2018 - May. 2020

- M.S. in Environmental Informatics & Conservation Ecology; Graduate Certificate in Data Science

### Beijing Normal University – Hong Kong Baptist University United International College

BACHELOR OF SCIENCE. ADVISOR: SIU TAI TSIM

Zhuhai, China

Aug. 2014 - June. 2018

- B.S. in Environmental Science; First Class Honours

## Research Projects

### University of Texas at Austin

GRADUATE RESEARCH ASSISTANT

Austin, TX

Sep. 2021 - present

- Developing a framework for geographic attribution using species distribution models in forensic palynology to assist a Department of Defense Multidisciplinary University Research Initiative (MURI) funded project: Networked Palynology Models of Pollen and Human Systems (NYMPHS)

### University of Michigan

RESEARCH ASSOCIATE

Ann Arbor, MI

Aug. 2020 - Jun. 2021

- Worked with various projects including Michigan cover crop classifications, spatial analysis of global borderline data, India smallholder field boundaries using various-resolution remote sensing products in R statistics, Python GDAL, and Google Earth Engine cloud platform
- Developed algorithms to index web information from studies of sustainable intensification in Python

### University of Michigan

RESEARCH ASSISTANT

Ann Arbor, MI

Dec. 2018 - May. 2019

- Assisted research projects for Michigan's Office of Great Lakes to prioritize resources restoration in the St. Clair River – Detroit River System
- Performed spatial analysis, querying, metadata constructing, and database processing with Great Lakes Hydrography Dataset to publish online maps

## Publications

- 2022 Mei, W., H. Wang, D. Fouhey, W. Zhou, I. Hinks, J. M. Gray, D. Van Berkel, M. Jain (2022). Using Deep Learning and Very-High-Resolution Imagery to Map Smallholder Field Boundaries. *Remote Sensing*, 14(13), 3046. [Link]

## Presentations

\* equal contributions

- 2017 Horr, D.M., Wang, H., Payne, A.A., Johnson, M. A., Sex-specific effects of temperature and social behavior on the dynamic body color of the green anole lizard. *Trinity University Summer Research Symposium*. San Antonio, TX
- 2018 Wang, H.\*, Wang, X.\*, Liao, A.\*, Environmental characteristics of seagrass beds *Halophila beccarii* at Tangjiawan, Zhuhai. *BNU-HKBU Division of Science and Technology Poster Presentation*. Zhuhai, China
- 2018 Rouzbehani, M., Horr, D. M., Ivanov, B. M., Payne, A. A., Vega, J., Wang, H., Johnson, M. A., Physiological traits predict behavioral activity in female lizards. *Integrative and Comparative Biology* (Vol. 58, pp. E409-E409). Journals Dept, 2001 Evans Rd, Cary, NC 27513 USA: Oxford Univ Press Inc. San Antonio, TX

## Honors & Awards

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2018   **First Class Honours**, BNU-HKBU UIC

*Zhuhai, China*

2021   **Graduate Recruitment Fellowship**, University of Texas at Austin

*Austin, TX*

## Skills

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**Software**   Google Earth Engine, ArcGIS Suites: Pro/Online/Developers, ERDAS IMAGINE, SPSS, Garmin GPS

**Programming**   R, Python, JavaScript, HTML/CSS

**Languages**   Chinese, English