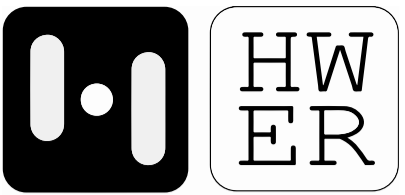


# HOMEWORLD EDUCATIONAL RESOURCES

HomeWorld is dedicated to advancing research and developing practical technological solutions. Our mission is to “*improve the sense-making of real-world science for all*” create next-generation visual thinking tools and high-quality, phenomenon-based informal science education materials. These resources are designed to simplify the understanding of real-world science and information, making them accessible, intuitive, and freely available to everyone, everywhere. Through these efforts, we aim to inspire informed decision-making and foster a sustainable, globally conscious future.



2023 - 2024

## Early Applications

In 2023, HomeWorld applied for the IES grant, Digital Learning Platforms to Enable Efficient Education Research Network, and participated in the MIT LEAP Challenge competition. These initiatives served as early tests of HomeWorld's research and product ideas.



IES NCER  
2023 LEAP CHALLENGE  
HomeWorld Educational Resources  
By NING WANG

MAY 2023

DEC 2022

THE STATE OF TEXAS  
HomeWorld Educational Resources  
Tax Exempt Organization

**Director of Board**

- David Williamson: President & Geoscience Consultant
- Zachary Clowdus: Secretary | Contents
- Steve Zheng: Database and Software Development Expert | Platform Software Development | Platforms

**Board of Consultants**

- Ning Wang: Platform Design & Educational Research & Contents
- Ali Salman: Deep Learning Solution Expert (Computer Vision) | Learning Analytics | UX
- Yuning Qiu: AI and Data Analysis Expert | Recommending System

## HomeWorld Launched

HomeWorld was founded by three board members: David Williamson (CEO/President), Zachary Clowdus (Secretary), and Stephanie Dong (Treasurer). The founding team also includes Dr. Ning Wang, Dr. Ali Salman, Steve Zheng, and Dr. Yuning Qiu.



JULY 2023

1 Board of Directors

- David Williamson: Geoscience Consultant
- Zachary Clowdus: Secretary | Multimedia Expert
- Steve Zheng: Database & Software Development Expert | AI Solutions Director
- Ali Salman: Deep Learning Solution Expert (Computer Vision) | AI Solutions Director

2 Research Members

- Dr. Ning Wang: Platform Design | Educational Research & Content
- Dr. Yuning Qiu: AI & Data Analysis Expert | Systems Development

3 Consultants & Partners

- Prof. Robert Stern: Geoscience & Grants Proposals
- Prof. Mary Urquhart: K-12 Science Education & Communication
- Dr. Stefan Slater: Learning Analytics Solutions
- Prof. Shiyang Jiang: Text Analysis | Data Science Education
- Prof. Shaun Kellogg: Social Networking Analytics
- Prof. Megan Atha: Educational Psychology | Assessment & Evaluation
- Prof. Hyeon-Ah Kang: Psychometrics | Cognitively Diagnostic Assessment
- Prof. Deborah Cockerham: Socioemotional Learning | Inquiry-based Learning
- Prof. Mia Kim Williams: Learning Experience Design & Technology

## BUILD EARLY PARTNERSHIP

We established an early research alliance with over nine technology development and learning experts from seven universities across five states in the U.S., with support from the LASER Institute at NCSU.



MAR 2024

UTD BIG IDEA COMPETITION SEMI-WINNER

HomeWorld participated in the 2024 UTD Big Idea Competition and earned a semi-finalist position (as the only NPO company), which opened the opportunity to join the subsequent UTD NPO Booster program.

AUG 2024

UTD NPO BOOSTER CAMP 2024

HomeWorld has been invited to the UTD NPO Booster Camp 2024 as one of fifty selected NPOs, held at the Richardson Innovation Headquarters.

SEPT 2024

## APPLIED \$2M IES RES GRANT

HomeWorld led the effort to apply for a \$2M IES research grant in collaboration with six other universities, including NCSU, UT, UTD, UNT, FGCU, and WU.

“Over the past 20 years, IES has pushed forward the frontiers of both basic and applied education sciences and transformed the way in which questions about education and learning are asked and answered.”

—MARK SCHNEIDER  
IES Director

20 Years Progress. Purpose. Performance.

DEC 2024

## TOOL COMPETITION 2025 - PHASE II

HomeWorld Educational Resources has advanced to Phase 2 of the 2025 Tool Competition, standing out among more than 3,000 applications.

