# AWARE-AI Spring Roundtable:

## Brain-inspired Algorithms, Hardware, and Interfaces

## April 3, 2023

## www.rit.edu/nrtai

# Topic Focus

This AWARE-AI Spring Roundtable focuses on brain-inspired algorithms, hardware, and interfaces. The discussion will focus on the latest research, current challenges, and what's on the horizon in the area of computer science, human perception, information science, and engineering.

# Roundtable panelists

- **Elena Fedorovskaya,** Ph.D, Research Faculty, Integrated Science Academy
- **Cory Merkel,** Ph.D, Assistant Prof., Department of Electrical & Computer Engineering, RIT
- **Alexander Ororbia,** Ph.D, Assistant Prof., Department of Computer Science, RIT
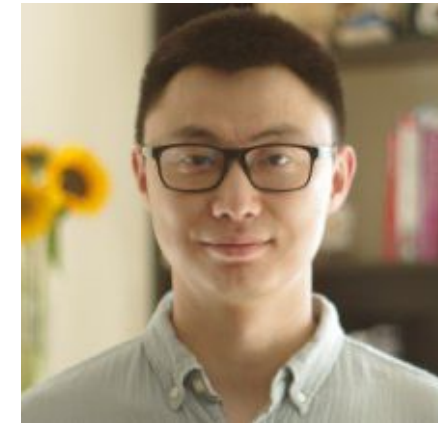- **Zhiqiang Tao**, Ph.D, Assistant Prof., School of Information, RIT



Elena

Cory

Alexander

Zhiqiang

# **Overarching Questions**

- What is currently the most exciting technology in your field of research related to brain-inspired algorithms, hardware, and interfaces, and what role does AI currently play?
- What are the ethical concerns that researchers in your field are currently facing, especially in relation to the growing use of AI for brain-inspired algorithms, hardware, and interfaces?
- What is on the horizon? Where do you see your field of research 10 years from now?
  - Is there an emerging technology in this brain-inspired algorithms, hardware, and interfaces that requires AI for success and what can the student audience do to contribute to that future vision?

- The AWARE-AI NRT is a program funded by the National Science Foundation.

- Trainees experience **career-advancing activities and events** addressing skill gaps in AI, and **convergent AI research** with faculty in **four research tracks:**

  **Software** - **Hardware** - **HCI** - **Cognitive Modeling**

- Trainees develop their **network** in a research community.

# How to apply at rit.edu/nrtai

**Application due March 1 on the AWARE-AI website**

- Application form
- CV (uploaded in form)
- Cover letter (uploaded in form)
- One letter of recommendation (if applicable, from advisor) sent to **awareainrt@rit.edu** by March 1

- Prospective or current MS and Ph.D. students can contact **awareainrt@rit.edu** for more information.
- Advisees can apply without advisor being an NRT affiliate. Advisor or program director indicates **support for participation** in their letter.
- Currently, 18 eligible PhD or MS programs at RIT (see website)
- All students in these program are eligible to apply.
- Applicants also eligible for stipends will be automatically considered.

$34,000 fellowship opportunity

Up to $1,440 conference travel

Seed funding grants

Career enhancing internships and visits

# RIT

# Thank you!

# Questions?