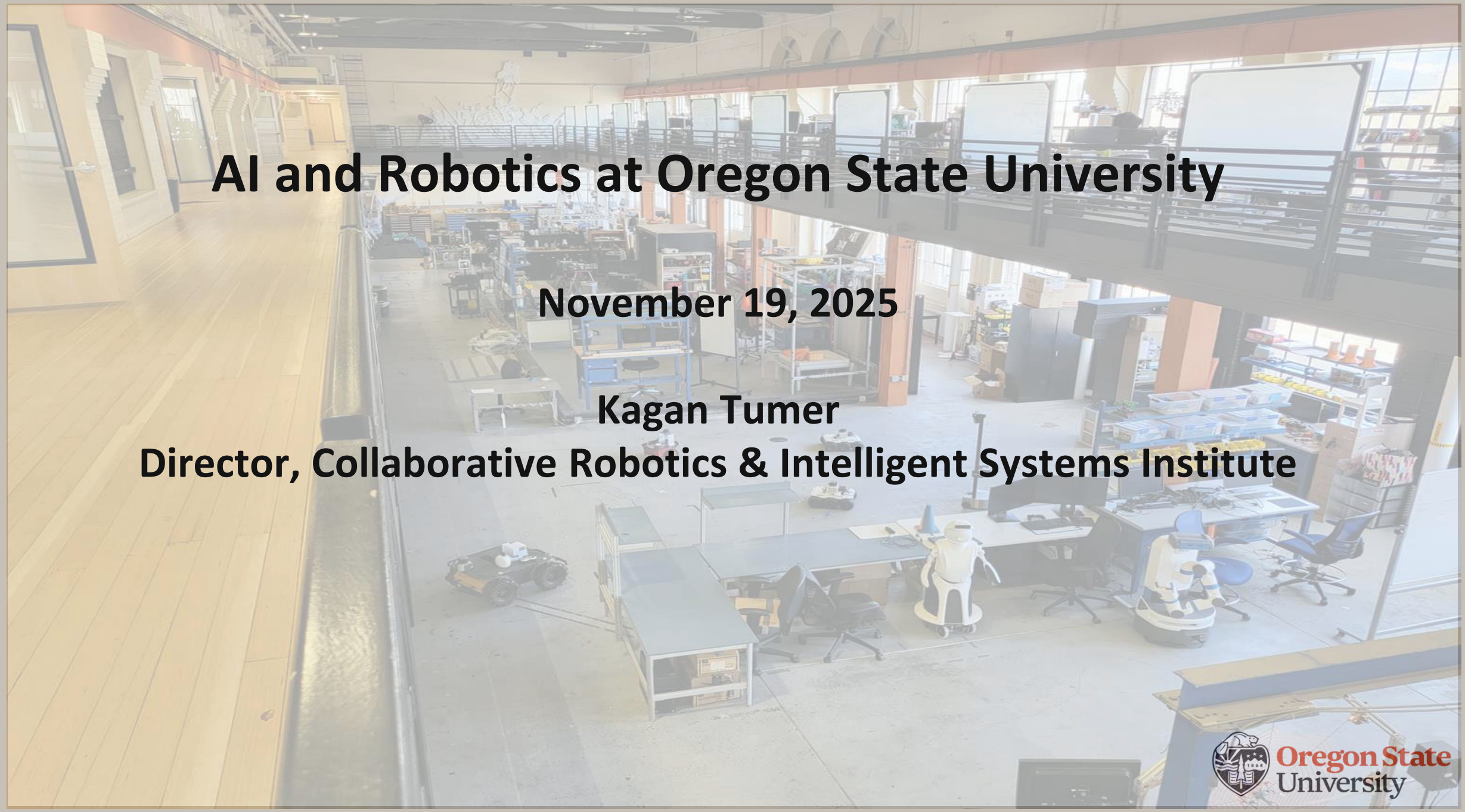


# AI and Robotics at Oregon State University

**November 19, 2025**

**Kagan Tumer**
**Director, Collaborative Robotics & Intelligent Systems Institute**

Oregon State University

# Robotics and AI at Oregon State University: Vision

Create robotics and AI solutions with positive impact on society

Double digit growth in AI and Robotics Companies

AI embedded in everyday life

Record investment in AI tools/usage

Need **workforce** that can thrive in this new environment

Need **experts** that can lead tech AND advise policy development

Oregon State University

# Robotics and AI at Oregon State University: Vision

Create robotics and AI solutions with positive impact on society

Education

Third university to offer doctorate degrees in Robotics in the US (2014)

First AI doctorate degree in the US

Oregon State University

# Robotics and AI at Oregon State University: Vision

Create robotics and AI solutions with positive impact on society

## Research

6+ year marine robotics project

2 NSF AI Institutes (Agriculture and in-home care)

## Education

Third university to offer doctorate degrees in Robotics in the US (2014)

First AI doctorate degree in the US

Oregon State University

# Robotics and AI at Oregon State University: Vision

Create robotics and AI solutions with positive impact on society

## Research

6+ year marine robotics project

2 NSF AI Institutes (Agriculture and in-home care)

## Societal Impact

Policies for Robotics/AI: Economic, legal, ethical impact

## Education

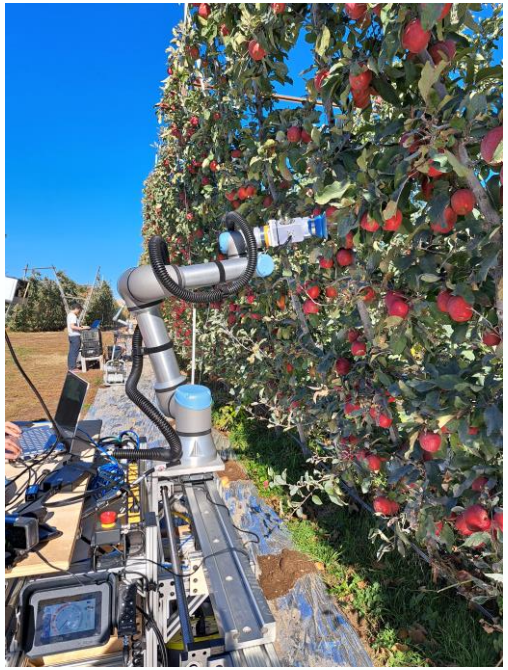
Third university to offer doctorate degrees in Robotics in the US (2014)

First AI doctorate degree in the US

Oregon State University

# Robotics and AI at Oregon State University: Agriculture

Create robotics and AI solutions with positive impact on society: AgAId NSF institute



Oregon State University

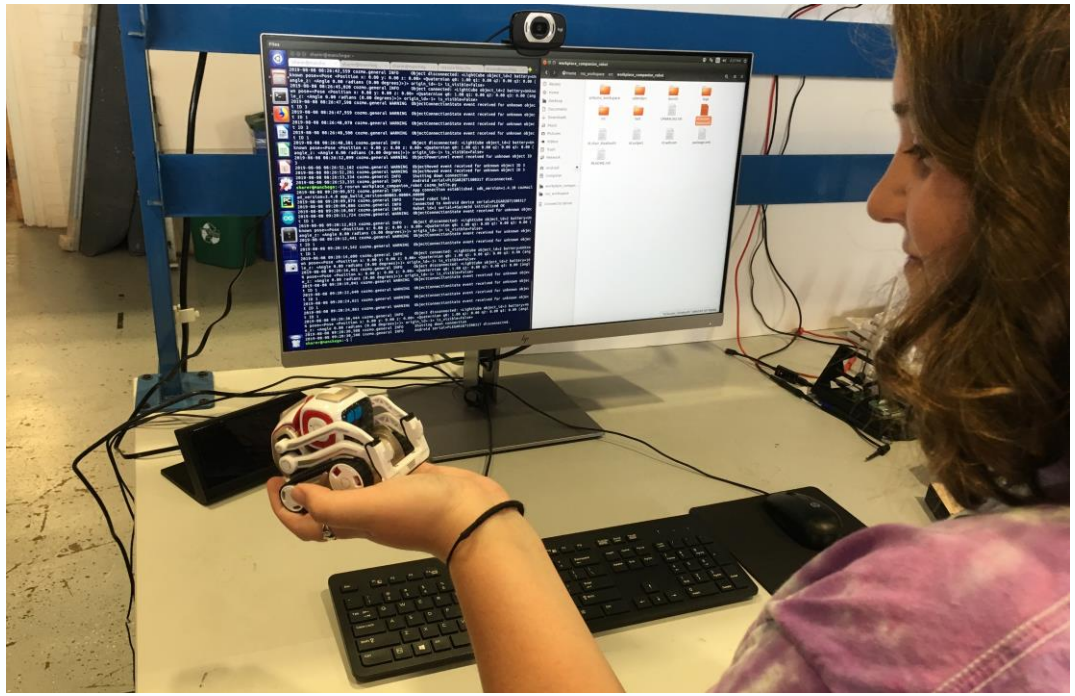
# Robotics and AI at Oregon State University: Oceans

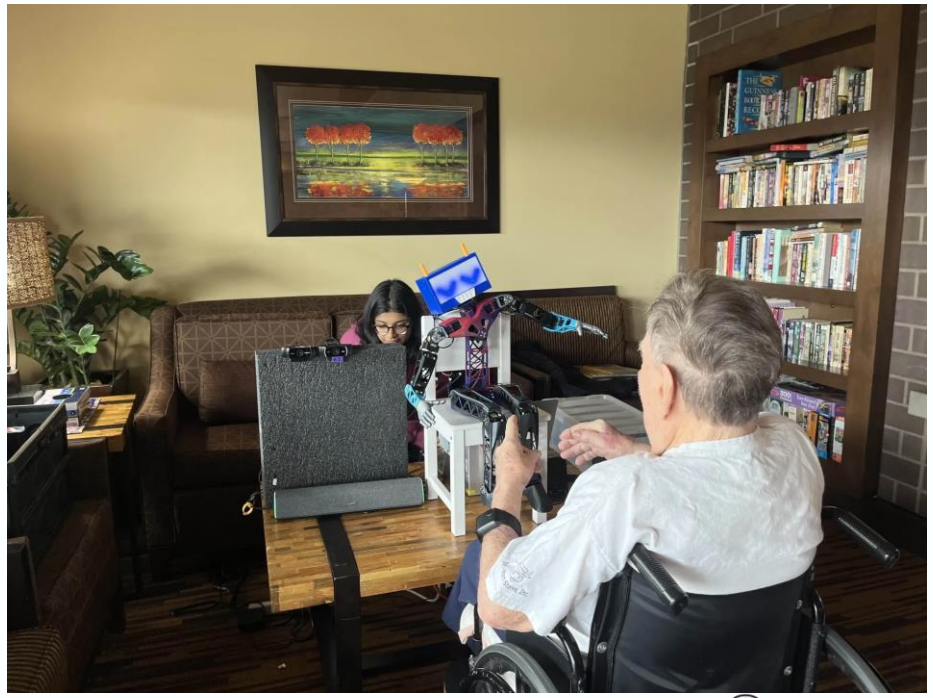
Create robotics and AI solutions with positive impact on society

Oregon State University

# Robotics and AI at Oregon State University: Health Care

Create robotics and AI solutions with positive impact on society: AI-Caring NSF Institute





Oregon State University

# Robotics and AI at OSU : What enables our Vision (What's our competitive advantage?)

Unencumbered by the past:
Envision robotics and AI of 2030, not 2000

Oregon State University

# Robotics and AI at OSU : What enables our Vision (What's our competitive advantage?)

Unencumbered by the past:
Envision robotics and AI of 2030, not 2000

Dynamic, world class faculty

Talented, bright students

Oregon State University

# Robotics and AI at OSU : What enables our Vision (What's our competitive advantage?)

Unencumbered by the past:
Envision robotics and AI of 2030, not 2000

Dynamic, world class faculty

Talented, bright students

Strong "consumer" base:
oceanography, forestry, ag sci.

Collaborative OSU culture

Oregon State University

# Top Three Priorities

***Robotics Degrees***

Create signature degree programs for workforce development in robotics:

- BS in robotics and AI
- Modular interdisciplinary MS
- Executive (online?) MS

***Robotics Ecosystem***

- Create an environment that attracts companies to Oregon
- Educate the workforce for those companies to thrive
- Encourage entrepreneurship for students/faculty to start companies in Oregon

Oregon State University

# Top Three Priorities

## *Robotics Hub*

Create a nationally recognized Robotics Academic Unit that consolidates research, education, and societal impact under one roof, facilitates collaboration, attracts top students and faculty to OSU, and drives Oregon's economic growth.

### *Robotics Degrees*

Create signature degree programs for workforce development in robotics:

- BS in robotics and AI
- Modular interdisciplinary MS
- Executive (online?) MS

### *Robotics Ecosystem*

- Create an environment that attracts companies to Oregon
- Provide the workforce for those companies to thrive
- Encourage entrepreneurship for students/faculty to start companies in Oregon

Oregon State University