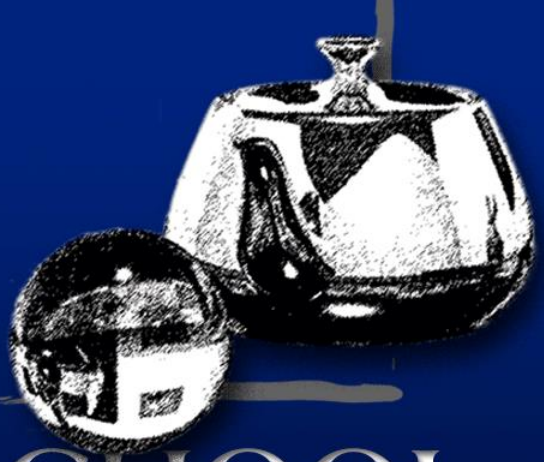
Deep Learning in AI & Robotics



SCHOOL OF COMPUTING

THE UNIVERSITY OF UTAH

DL-AIR

Deep Learning in AI & Robotics

Advisory Group: Tom Henderson (SoC) , Ziad Al-Hallah (SoC), Cathy Liu (CEE), Tolga Tasdizen (ECE), David Sacharny (Shield AI)

Faculty Associates:

SoC: Shandian Zhe, Vivek Srikumar, Tucker Hermanns, Alan Kuntz

CEE: Nikola Markovic

A stackable degree

University of Utah
August 2025

SCHOOL OF COMPUTING

THE UNIVERSITY OF UTAH

DL-AIR

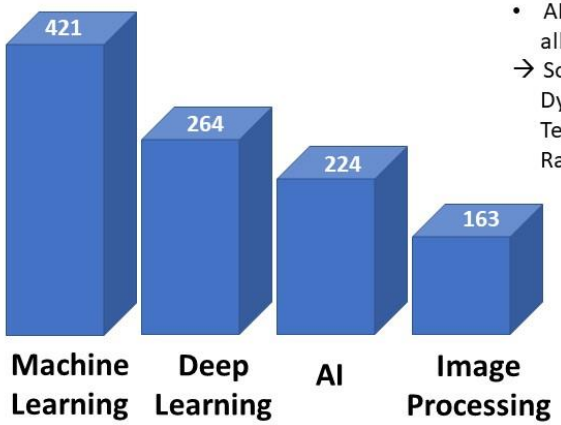
SCHOOL OF COMPUTING

The Deep Learning Certificate Program will provide:

* **working knowledge** of the use of state-of-the-art deep learning technology
* **capstone projects with industry** partners on image analysis, language translation, autonomous systems, sensor data processing, database analytics, fraud detection, etc., for classification/recognition/decision making

15 hrs total: 31 certificates awarded to date

Unmet Utah Workforce Demand
(Jobs per Area – source: Indeed)



- AI employment from 2015-2019 grew 20% vs total employment growth of 5.6%
- AI job postings grew 28% from 2015-2019
- AI occupations projected to grow faster than all other occupations in next 10 years

→ Source: "U.S. AI Workforce, Labor Market Dynamics," Center for Security and Emerging Techologies, Issue Brief, D. Gehlhaus and I. Rahkovsky, Georgetown University, April 2021.

Working Knowledge Courses:

Machine Learning **At least 1**
Artificial Intelligence
Probabilistic Machine Learning

Robotics **At least 1**
Computer Vision
Image Processing
Transportation Operations
Traffic Network Modeling

Deep Learning **Required**

Industry Capstone Project

Required

THE UNIVERSITY OF UTAH

DL-AIR

Industry Partners & the Future

SCHOOL OF COMPUTING

Nvidia

Computer systems design services company

NVIDIA

kairos autonomi

blyncsy

HELPING YOU MAKE DATA-DRIVEN DECISIONS ON YOUR R

LEARN MORE

Home | Products | Research | Multimedia | New

WHAT'S NEW?

SEP 25 - OCT 10, 2019 KAIROS' PRODUCTS AND PERSONNEL SUPPORT EXERCISE FORGING SABRE AT MOUNTAIN HOME AFB

KAIROS AUTONOMI RECEIVES ISO 9001:2015 RECERTIFICATION

KAIROS PARTICIPATES IN ARMY WARFIGHTING ASSESSMENT 17.1 AT FT. BLISS, TX. AWA ASSESSES NEW AND EMERGING CAPABILITIES.

Robotics Appl

The Pronto4 Agnostic Autono

Kairos Autonomi thinks differently about autonomy. produces high-quality, cost-effective solutions that has a steering wheel. Effectively create a fleet of o handle a host of operations.

- Testing & Evaluation
- Training Requirements
- Moving Land Targets
- Range Clearance
- Convoy Lead / Follow

UDOT

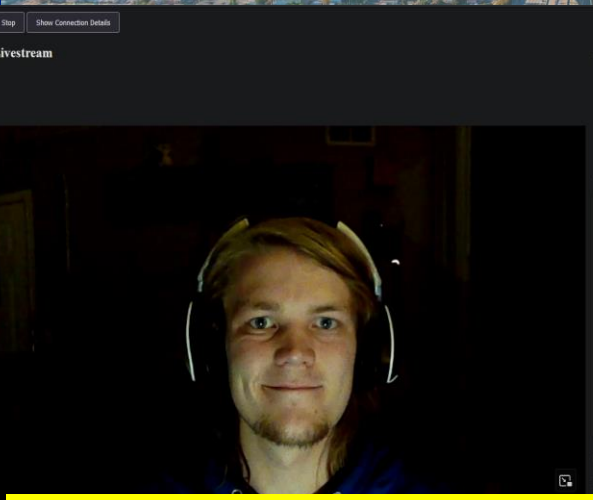
Utah Department of Transportation - Y... youtube.com

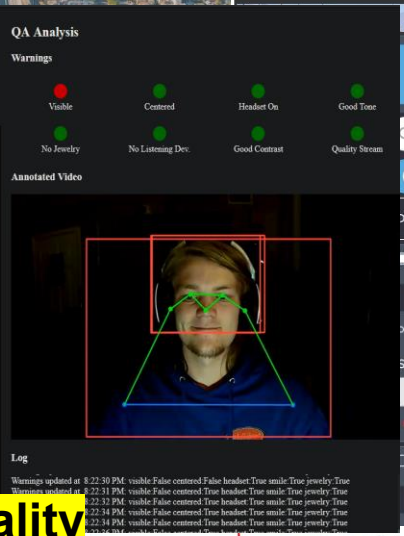
UDOT udot.utah.gov

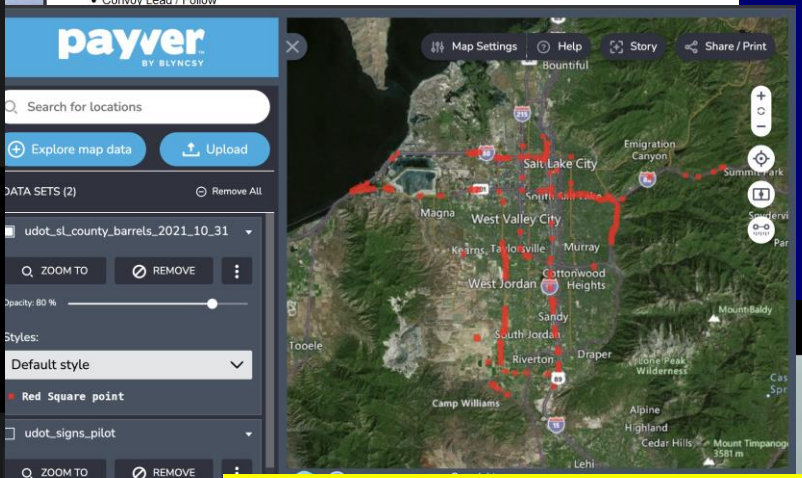
Utah Department of Transportatio... openei.org

Utah Department of Transportation ... linkedin.com

UDOT REGION TWO



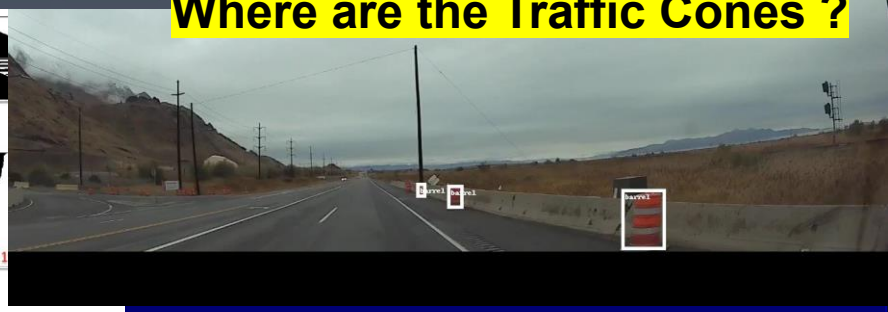




Sign Language Video Quality

Where are the Traffic Cones ?

Crosswalk Quality



Industry Partners & the Future

Nvidia
computer systems
design services
company

kairos autonomi

blyncsy

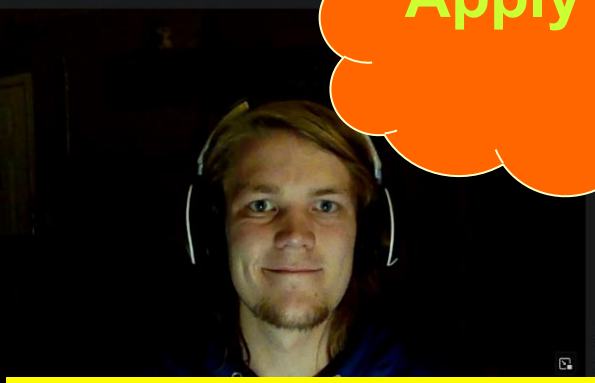
UDOT udot.utah.gov

Utah Department of Transportation ...
linkedin.com

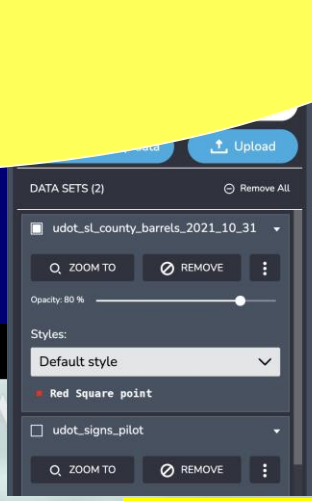
UDOT
REGION TWO

Questions?
Contact: tch@cs.utah.edu

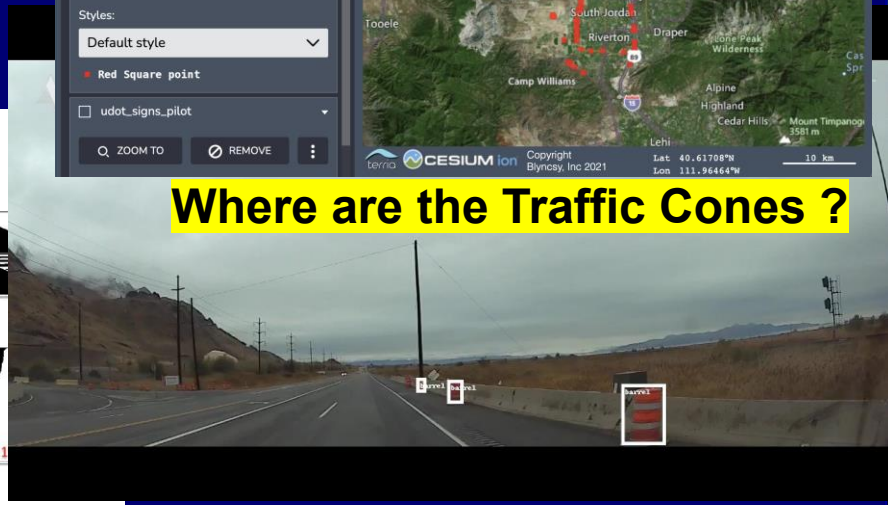
Apply Now!



Sign Language Video Quality



Where are the Traffic Cones ?



Crosswalk Quality

https://www.cs.utah.edu/graduate/graduate-certificate-in-deep-learning/