

Innovative Research Orientation Presented by UC Riverside and Google Cloud

March 13, 2023 from 9 AM - 3 PM in HUB 302 South

Google Cloud and UCR Information Technology Solutions are conducting a 1-day orientation to introduce researchers to Google Cloud, showcase key solutions that can accelerate scientific discovery and demonstrate how to quickly and easily get started. Those interested must register to attend.

Check In & Continental Breakfast - 8:30 AM

Welcome: Google Cloud + Research

Module 1: Introduction to Google Cloud

Cloud

9:00 AM

9:30 AM

Speaker:

Derek Oliver

- Welcome and Introduction
- Speakers: Matt Gunkel Keith Binder
- Google and Research • Intro of Practice Lead Team
- and domain expertise

• Google Cloud infrastructure

• Introduction to data and ML

• The data journey on Google

on Google Cloud

• Cloud economics • Use case: RAD Lab Data Science module

Module 3: Curating Data and Managing Costs

12:15 PM Speaker: • Manage and share access to data with Cloud IAM

• Discover data with Data Charles Elliott Catalog / Analytics Hub

Module 4: Machine Learning in Google Cloud

1:00 PM

• Machine Learning options on

Speaker:

Google Cloud BigQuery ML

Volker Eyrich

- Vertex AI AutoML Responsible AI
- From NLP to LLM

Module 2: Ingesting Data into Google Cloud

10:15 AM	• Data storage solutions
	overview
Speaker:	• Load image data into Cloud
Charles Elliott	Storage
	• Load structured data into
	BigQuery
	 Using BigQuery for analysis
	• Use Case: Cross Modality
	Analysis

Module 5: Analyzing Data with Notebooks

- Google Colab

Speaker: Volker Eyrich

1:45 PM

- Vertex AI Workbench
- Created managed notebooks instance
- Connecting to BigQuery using Python and R in Notebooks
- Use Cases

Open Discussion & 'Deep Dives' - 2:30 PM

Lunch - 11:00 AM