

**Session Program**

**26-27 Oct 2022**

**HDR<sup>2</sup> From Harnessing the Data Revolution to  
Harvesting the Data Revolution**

***Poster session I***

## Tuesday 25 October

12:00

### Poster session I

**Session** | **Location:** | **Convener:** Philip Coleman Harris

12:30

12:00–12:30 **Lightning talks**

16:30

### Poster session I

**Session** | **Location:**

16:30–17:30

#### **Interdisciplinary Traineeship for Socially Responsible and Engaged Data Scientists (iTREDS)**

##### **Speakers**

Thomas Mustillo, Kristin Kuter

16:30–17:30

#### **HDR IDEAL - The Institute for Data, Econometrics, Algorithms, and Learning**

##### **Speaker**

Varun Gupta

16:30–17:30

#### **iHARP- Harnessing Data and Model Revolution in the Polar Regions**

##### **Speaker**

Dr Vandana Janeja

16:30–17:30

#### **HDR DSC: Collaborative Research: Transforming Data Science Education through a Portable and Sustainable Anthropocentric Data Analytics for Community Enrichment (ADACE) Program**

##### **Speaker**

Dr Yu Liang

16:30–17:30

#### **Data Science Corps: Wrangle, Analyze, Visualize - Experiential Learning in Local Community Organizations**

##### **Speaker**

Valerie Barr

16:30–17:30

#### **T-Tripods: Supporting the Foundation of a Data Intensive Studies Center**

##### **Speaker**

Prof. Lenore J Cowen

16:30–17:30

#### **Central Coast Data Science Partnership: Training a New Generation of Data Scientists**

##### **Speaker**

Alex Franks

16:30–17:30

#### **Training next generation data scientists for Energy Transition**

**Speaker**  
Mikyoung Jun

16:30–17:30

**DAMAD Science Corps**The Delaware And MiD-Atlantic Data Science Corps

**Speaker**  
Prof. Jing Gao

16:30–17:30

**Cost-aware Generalized alpha-investing for Multiple Hypothesis Testing**

**Speaker**  
Patrick Flaherty

16:30–17:30

**Imageomics: Images as the Source of Information about Life**

**Speaker**  
Tanya Berger-Wolf

16:30–17:30

**A3D3: Accelerating AI Algorithms**

**Speaker**  
Philip Coleman Harris

16:30–17:30

**Modernizing Water and Wastewater Treatment Through Data Science Education and Research**

**Speaker**  
Prof. Amanda Hering

16:30–17:30

**Professor**

**Speaker**  
Jeffrey Errington

16:30–17:30

**HDR DSC: Data Science for Social Good in Urban Areas**

**Speaker**  
Dr Aryya Gangopadhyay

16:30–17:30

**AI Across the Statewide Curriculum**

**Speakers**  
Dr Jennifer Drew, Dr Satyanarayan Dev

16:30–17:30

**D4 (Dependable Data Driven Discovery) Institute**

**Speaker**  
Prof. Hridesh Rajan

16:30–17:30

**Deletion Resilient Group Testing**

**Speaker**  
Venkata Gandikota

18:30

# Wednesday 26 October

10:10

## Poster session I: Session 2

Session | Location:

10:10–11:10

### TRIPODS Phase II: Institute for Data, Econometrics, Algorithms, and Learning (IDEAL)

#### Speaker

Lev Reyzin

10:10–11:10

### Convergence Curriculum for Geospatial Data Science

#### Speaker

Dr Anand Padmanabhan

10:10–11:10

### The I-GUIDE Cyberinfrastructure Platform

#### Speaker

X. Carol Song

10:10–11:10

### Collaborative Research: HDR DSC: Building Capacity in Data Science through Biodiversity, Conservation, and General Education

#### Speaker

Prof. Kathleen Prudic

10:10–11:10

### Data Science Career Pathways in the Inland Empire (DS-PATH)

#### Speaker

Paea LePendur

10:10–11:10

### Drift vs Shift: Decoupling Trends and Change point Analysis

#### Speaker

Prof. David Matteson

10:10–11:10

### Data science training and practices: preparing a diverse workforce via academic and industrial partnership

#### Speaker

Babak Shahbaba

10:10–11:10

### DIMACS DATA-INSPIRE at Rutgers: Conditioned Wiener Processes and a Rigorous Probabilistic Analysis of Dynamics

#### Speaker

Dr Cameron Thieme

10:10–11:10

### DATA INSPIRE: Morse Graphs can effectively estimate the Regions of Attraction (RoAs) of dynamical systems, including closed-box ones.

**Speaker**  
Ewerton Rocha Vieira

10:10–11:10 **A3D3: Community Engagement, Education, Outreach**

**Speakers**  
Mark Neubauer, Mark Stephen Neubauer

10:10–11:10 **Institute for Data-Driven Dynamical Design**

**Speakers**  
Eric Toberer, Prof. Jane Greenberg, Prof. Steven Lopez

10:10–11:10  
**Institute for Geospatial Understanding through an Integrative Discovery Environment (I-GUIDE)**

**Speaker**  
Prof. Shaowen Wang

10:10–11:10 **Infusion of data science and computation into engineering curricula**

**Speakers**  
Rebecca Napolitano, Prof. Wesley Reinhart

10:10–11:10  
**The Earth Data Science Corps: a model for teaching & learning environmental data science skills**

**Speaker**  
Dr Nathan Quaderer

10:10–11:10 **The National Data Mine Network**

**Speaker**  
Dr Mark Daniel Ward

10:10–11:10 **Multiscale Basis Dictionaries on Higher-Order Networks**

**Speaker**  
Naoki Saito

10:10–11:10 **Establishing the Metropolitan Chicago Data Science Corps (MCDC)**

**Speaker**  
Suzan van der Lee

10:10–11:10  
**Engaging Undergraduates in Data and Decisions Research at the Engineering/Biology Interface**

**Speaker**  
Dr David Schmale

11:10