

# DaMADScience Corps

## The DelAware And MiD-Atlantic Science Corps

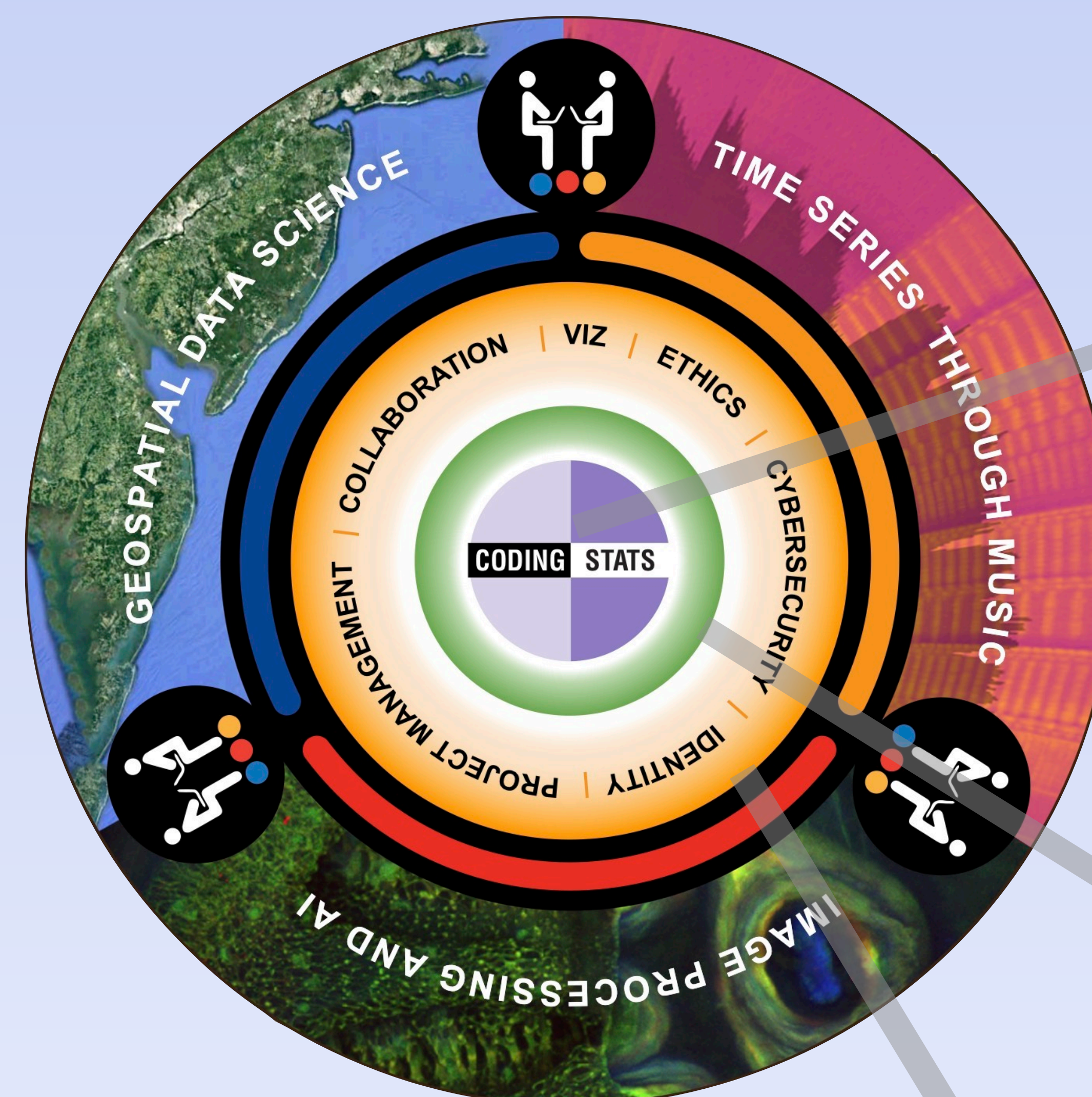
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*A partnership between University of Delaware, Lincoln University, Delaware State University to establish an accessible, equitable program for Undergraduate Data Science education*

A Multi-Institution Data Science educational program that is:

- Accessible to students of any background and prior STEM preparation
- Supports students' education and career goals across disciplines
- Provides job-ready skills including data-ethics training
- Builds capacity at HBCUs for Data Science pedagogy leveraging UD's existing resources
- Builds skills and frameworks for equitable education at UD and supports recruitment of diverse scholars



### Coding and Statistics Bootcamps

Offered online asynchronously to level the playing field and ensure the program is accessible to all

### Core class: Foundations of Data Science for Everyone

Online synchronous class offered at all institutions jointly (currently implemented at LU + UD)  
From descriptive and inferential statistics to machine learning topics (clustering, random forest, neural networks)

#### Practical approach:

- Real world data, coding in Python, the most sought after language in the data science job market,
- Cloud Computing on Google Colab notebooks
- Industry standard collaborative tools (GitHub)
- Industry standard communication platforms (Slack)

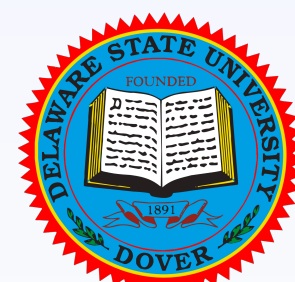
### Hands on hackathons & research internships

Led by UD graduate students, offering undergraduate financial support

Each institution will lead the development of a topical advanced class tuned to the institution's scholarly interests and expertise



Year 1 Geospatial Data Science



Year 2 Image Analysis through AI



Year 3 Time Series Analysis through the lens of Music

### Data Science Seminar

Offered synchronously at all three institutions simultaneously.  
Teaching Data Ethics, Collaborative Skills, Cybersecurity, Visualizations & Communication in a discursive setting

