

DaMADScience Corps

The DelAware And MiD-Atlantic Science Corps

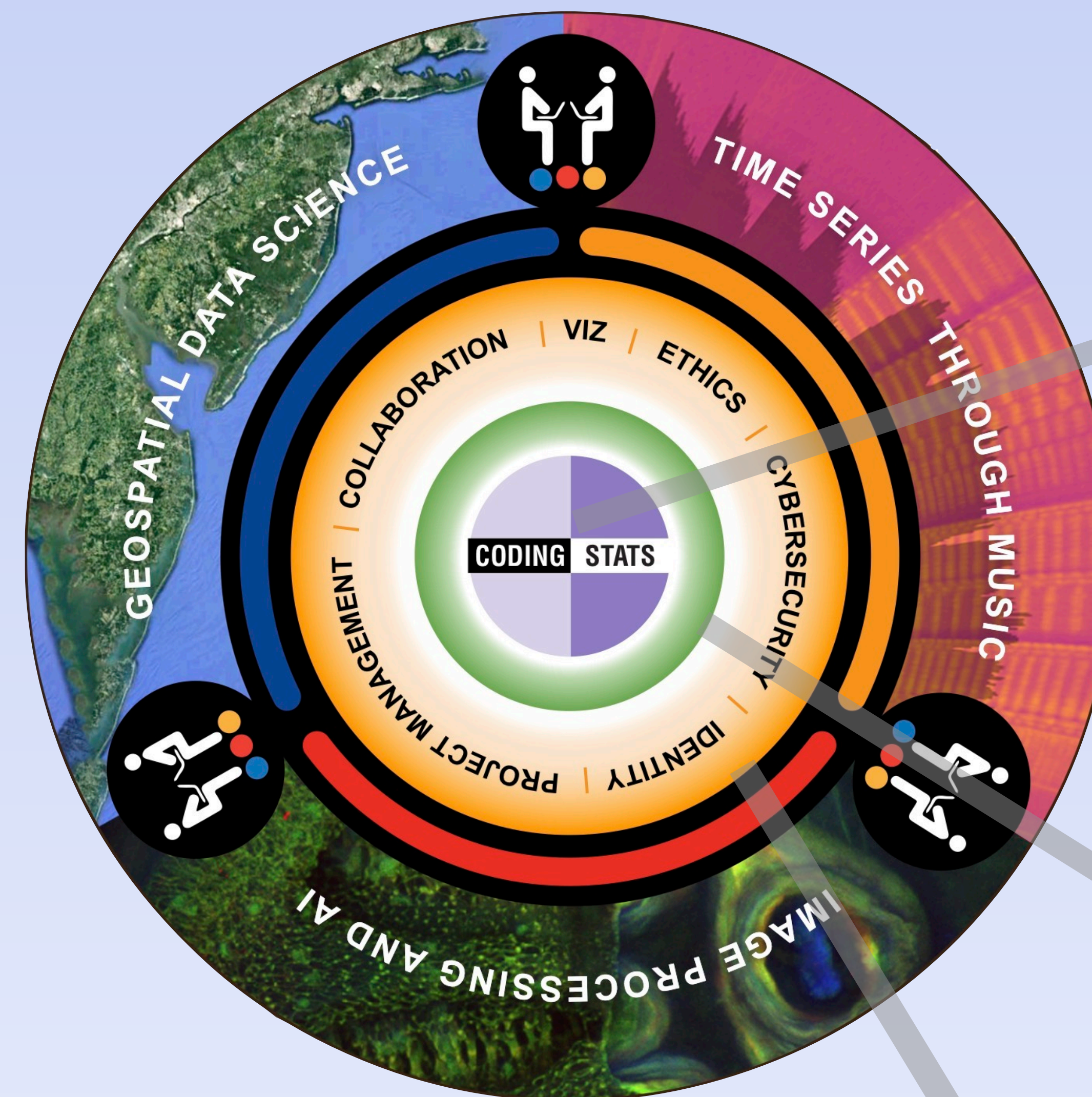
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A partnership between University of Delaware, Lincoln University, Delaware State University to establish an accessible, equitable program for Undergraduate Data Science education

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

