



Mission

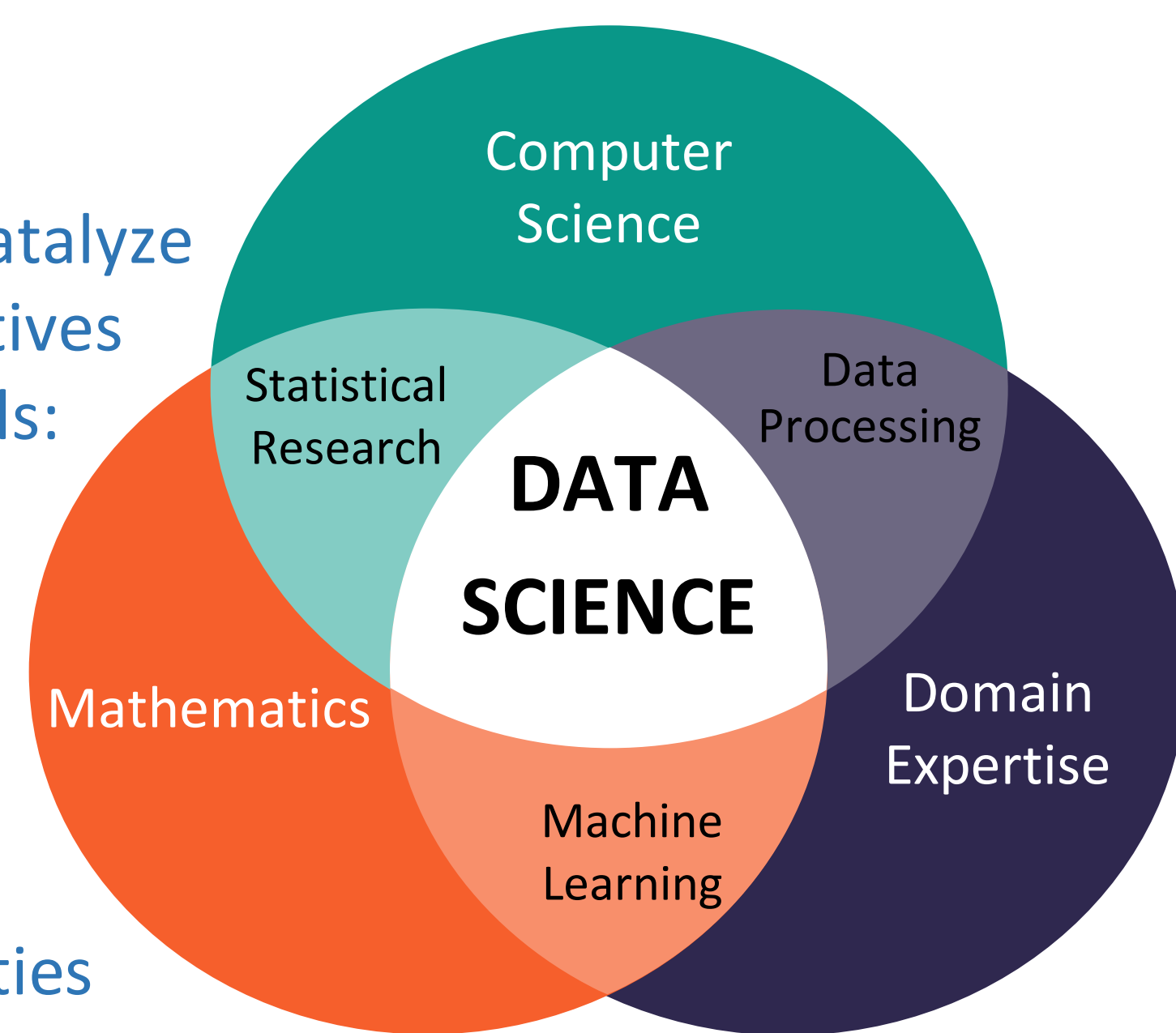
The Data Science Institute (DSI) aims to accelerate research in data science, serving as a nucleating effort to catalyze interdisciplinary research collaborations across fields impacting our society.

Serving as a hub for interdisciplinary research, collaboration and excellence, the DSI brings together faculty and students from seven colleges across campus to work effectively with big data and address problems and opportunities facing society—from health sciences, physical sciences, environmental sciences, to behavioral and social sciences and public policy. The Institute will further involve partnerships with industry and other institutions in the region.

Goals

Serving as a nucleating effort to catalyze and coordinate data science initiatives at UD, with the following core goals:

- Coalesce researchers around data science research themes and develop competitive research programs
- Engage students in data science research and training opportunities
- Collaborate with government and industry partners
- Support Data Intensive & Computational Science Core



Educational Programs at UD

Bioinformatics Data Science | Economics | Statistics
 Cybersecurity | Data Science | Epidemiology
 Geospatial Data Science | Materials Data Science
 Educational Statistics | Electrical & Computer Engineering
 Business, Info. Management & Financial Services Analytics
 Neuroscience | Urban Data Science | Hospitality

DSI Student Association and DSI Fellows

Students engage via the Data Science Student Association and DSI Fellows. The Data Science Student Association is a newly established student group open to all students interested in Data Science.

DSI Fellows are graduate students and postdocs who serve as student leaders to help drive data science initiatives and student hosted events such as the Data Science Community Hour and the Data Science Student Symposium.

“UD’s Data Science Institute is an exciting hub for interdisciplinary research, collaboration and excellence”
 — UD President Dennis Assanis

Faculty Council

The Faculty Council engages with leading Data Science researchers and program representatives in order to drive the DSI’s mission and guide DSI operations through four Working Groups.

Director Cathy Wu
Assoc. Director Benjamin Bagozzi
Assoc. Director John Gizis

Member	College	Department
Ali, Saleem	CEOE	Geography & Spatial Sciences
Buler, Jeffrey	CANR	Entomology & Wildlife Ecology
Chandrasekaran, Sunita	COE	Computer & Information Sciences
Chen, Bintong	CBE	Business Administration
Conaty-Buck, Susan	CHS	School of Nursing
Davey, Adam	CHS	Behavioral Health and Nutrition
Ding, Shanshan	CANR	Applied Economics & Statistics
Dinh, Vu	CAS	Mathematical Sciences
Dobler, Gregory	Biden	School of Public Policy & Administration
Eigenmann, Rudolf	COE	Electrical & Computer Engineering
Fang, Xiao	CBE	Management Information Systems
Fleischhacker, Adam	CBE	Operations Management
Horney, Jennifer	CHS	Epidemiology
Jayaraman, Arthi	COE	Chemical & Biomolecular Engineering
Karpyn, Allison	CEHD	Human Development & Family Sciences
May, Henry	CEHD	School of Education
Powers, Thomas	CAS	Philosophy
Trembanis, Art	CEOE	School of Marine Science and Policy
Vargas, Rodrigo	CANR	Plant and Soil Sciences

Resident Faculty

Strategic faculty hiring across and within colleges in both foundational and applications areas of data science, to complement current strengths of 140+ DSI-affiliated faculty.

Barmaki (COE) Beheshti (COE) Bianco (CAS) Brockmeier (COE) Davis (CEOE) Dobler (Biden)
 Gao (CEOE) Hong (COE) Mondal (CEOE) Peng (COE) Shen (CANR) Student (CEHD) Zhao (CANR)

Research Working Group

Foster the development of multidisciplinary research collaborations and competitive grant submissions, including large team-based funding competitions and grants engaging government and industry partners

Research WG Co-Chairs

 Cathy Wu Benjamin Bagozzi

Infrastructure Working Group

Identify, procure, and help manage data and compute infrastructure, supporting data science and the Data intensive & Computational Science (DiCoS) Core. Combining sophisticated hardware assets with highly skilled technical expertise, DiCoS works with researchers to carry out advanced scientific studies and support interdisciplinary research collaborations.

Infrastructure WG Co-Chairs

 Rudi Eigenmann Sunita Chandrasekaran

Training Working Group

Support research by facilitating training and interdisciplinary opportunities

- Create training opportunities for interdisciplinary groups
- Leverage existing resources
- Support development of sponsored training grants

Training WG Co-Chairs

 Susan Conaty-Buck Karen Hooper

Networking & External Relations Working Group

- Establish the Data Science Distinguished Lecture Series & co-sponsor lectures
- Host and co-sponsor training workshops and networking events
 - Promote visibility and engagement via local and national media and social media
- Engage industry & government partners
- Host meetings, seminars & brownbag lunches to share research, incubate ideas, and promote networking among faculty, students, and partners

Networking & External Relations WG Co-Chairs

 Henry May John Gizis

Industry Liaison

 Michael Blaustein

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