

Harnessing adventurous collaboration and data-driven AI innovation to tackle society's challenges.

Our mission

The **Lucy Family Institute for Data & Society** adventurously collaborates on advancing data-driven and artificial intelligence (AI) convergence research, translational solutions, and education to ethically address society's most vexing challenges.

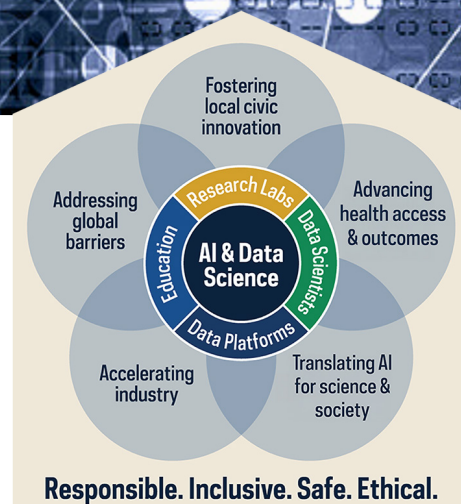
As an innovative nexus of academia, industry and the public, the Institute also fosters data science and AI access to strengthen diverse and inclusive capacity building within communities.

Our vision

Our vision is to stand as the preeminent intellectual beacon that inspires collaborative, equitable, and impactful data and AI innovations as a global force for good.

Our goals

1. Become the epicenter where disciplines and expertise collide to inspire and perform socially responsible, ethical, and impactful data science and AI research, education and interdisciplinary applications.
2. Pursue emergent research questions and translational challenges to accelerate data-driven and AI solutions for society's wicked problems.
3. Design and implement ethical and inclusive data science education programs to build access, capacity and leadership.
4. Cultivate a driven, agile, and inclusive environment that enables all team members to thrive and collectively deliver on the Institute's goals.
5. Establish the Lucy Family Institute as a collaborative, mission-driven, global thought leader.



Founded in 2019 with a generous gift from Robert and Sara Lumpkins, the Lucy Family Institute for Data & Society focuses on creating innovative data-driven and AI solutions to address complex societal challenges.

Humanity-centered and data-driven, the Institute promotes collaboration among scholars and practitioners from different domains.

"The Lucy Family Institute will be an intellectual and interdisciplinary beacon that produces impactful and equitable data-driven solutions for the good of society."

-Nitesh Chawla,
Founding Director

By the numbers

SUBMITTED
126
PROPOSALS
FY 2023-24

VALUE OF
\$188.8M
PROPOSALS
SUBMITTED
FY 2023-24

Research
Awards
43
Received

PUBLICATIONS
1138
IN 2023

44
COLLABORATION
PARTNERS

3
INTERNSHIP
PROGRAMS



Translating AI for **science & society**.

Inspiring transformative advances in the sciences through interdisciplinary applications of AI, and developing and deploying innovative tools in service of society.

Advancing **health access & outcomes**.

Identifying health disparities, developing focused interventions and creating data-driven research that addresses the needs of those most impacted by barriers to health in the communities that we serve.

Accelerating **industry**.

Building bridges with local banking and manufacturing companies to develop AI solutions that accelerate industry success and enhance the quality of living in our communities.

Fostering local **civic innovation**.

Connecting with partners in St. Joseph County and Elkhart County, Indiana to develop data and AI-driven advancements that foster innovation and address community challenges.

Addressing global **barriers**.

Co-innovating with partners in the Global South, the Institute is addressing barriers in access to health and nutrition by launching novel AI apps, investing in data science training for organizations committed to downscaling poverty, and launching cooperative platforms to monitor pediatric cancer.

Research *spotlight*

The Opioid Crisis

ARCOS Platform | Supported by the Lucy Family Institute's AETL and the Wilson Sheehan Lab for Economic Development, a user-friendly platform was developed to track transactions of controlled substances

AI for Opioid Prevention | NSF-funded research projects are tackling opioid misuse in teens by leveraging social media to develop personalized AI-driven interventions.

Education for social good.

The Institute's educational initiatives prepare students, educators and professionals to pivot into careers in data-driven and AI fields. The programs offer experiential training in ethical, socially responsible and engaged use of data and artificial intelligence.

- Interdisciplinary Traineeship for Socially Responsible & Engaged Data Scientists (iTREDS)
- Early Bridges to Data Science
- Research, Analytics, Data Innovation, and New Technologies (RADIANT)
- The Lucy Internship Program

Research **powered** by:

The Institute's research is powered by the collaborative nexus of specialized labs:

- The Applied Analytics and Emerging Technology Lab (AETL)
- The Artificial Intelligence Trust and Reliability (AITAR) Lab
- The Data, Inference, Analytics, and Learning (DIAL) Lab
- The Civic-Geospatial Analysis and Learning Lab (C-GALL)
- The Health Data and Analytics Lab (HDAL)
- The Human-Centered Responsible Artificial Intelligence (HRAI) Lab

