



AI INNOVATION INSTITUTE

Stony Brook University's AI Innovation Institute (AI3) remains at the forefront of artificial intelligence research, advancing AI technology, education, and societal impact. The institute fosters a collaborative, interdisciplinary environment for groundbreaking research, offering comprehensive support and training across the university and the broader New York State community.

AI3 is structured into three key divisions:

- **Research Centers and Groups (RC):** This division focuses on faculty-led research in AI/ML, exploring diverse, thematic areas with funding success and innovation at their core.
- **AI Services (AIS):** AIS provides essential resources, tools, training, and consulting services to faculty and regional stakeholders, supporting AI/ML applications and collaborative research efforts.
- **Education and Equity (EE):** EE explores AI's role in education and advocates for social justice by addressing biases and promoting equitable access to AI technology.

EDUCATIONAL PROGRAMS

MS in Data Science
PhD in Data Science
MS Concentration in Data Science and Engr.
MS in Engineering of AI
BS Specialization in AI and Data Science

RESEARCH INITIATIVES

AI in Neuroscience Multiscale neural modeling through imaging and machine learning
AI in Cancer Digital pathology for improved medical diagnosis and treatment
Trustworthy AI Improving computer security and the interpretability of machine learning
AI in Energy and Sustainability Renewable energy, grid optimization, zero carbon
AI in Precision Medicine Designing targeted drug therapies
AI in Psychology Modeling for improved learning, reasoning, and problem-solving capabilities



EDUCATIONAL AND WORKFORCE TRAINING INITIATIVES

240+ students enrolled in AI courses, including the new AI specialization

250+ undergraduate students enrolled in AI courses including the concentration program in data science and engineering

70+ Ph.D. students working closely with AI faculty on collaborative and core research

60+ core and affiliated faculty across departments at Stony Brook University

Alumni working at major AI companies, including Amazon, Google, IBM, Meta, Microsoft, Nvidia, and OpenAI



RESEARCH HIGHLIGHTS

More than \$20 million in funding, including:

4.2M DARPA grant: AI for real-world understanding

4.3M NIH grant: Understanding the neurobiology for Alzheimer's disease with AI

3.2M NIH grant: Improving fetal monitoring with artificial intelligence

1.7M NSF grant: Developing technology universally applicable in diverse industrial fields requiring robotic manipulations

1.5M NSF grant: Personalize caregiving robot assistants for people with ALS

NSF Major Research Instrumentation grant to build AI Computing Infrastructure

RESEARCH COLLABORATIONS

EMPIRE AI

SUNY EMPIRE INNOVATION PROGRAM

SUNY STRIVE

SUNY-IBM AI RESEARCH ALLIANCE

BROOKHAVEN NATIONAL LABORATORY

For more information, visit

ai.stonybrook.edu



“ These are exciting times for AI at Stony Brook University. Join us in AI research and education to tackle some of the biggest challenges of our time! ”

STEVEN SKIENA, INTERIM DIRECTOR

 **Stony Brook University**
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