S**t**ony Brook University’s Institute for AI-Driven Discovery and Innovation in the College of Engineering and Applied Sciences is uniquely positioned to help SUNY and New York state become the epicenter of artificial intelligence research, education and discovery. Advancing research and educational paradigms related to human-machine symbiosis, the AI Institute is grounded in the principle that AI should amplify human intelligence instead of replacing it, while preparing the workforce of tomorrow to co-exist creatively in the AI-driven economy of the future. Established in 2019 with funding from SUNY’s Empire Innovation Program, the Institute is envisioned as an intellectual hub to facilitate and promote AI research and educational initiatives across Stony Brook and beyond.

**EDUCATIONAL PROGRAMS**
- MS Certificate in Data Science
- 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 Music**  Revitalizing the arts through machine learning and vice versa
- **AI in Ecology**  Monitoring wildlife populations through computer vision and machine learning
These are exciting times for AI at Stony Brook University. Join us in advancing AI research and education to tackle some of the biggest challenges of our time!

STEVEN SKIENA, DIRECTOR

EDUCATIONAL AND WORKFORCE TRAINING INITIATIVES

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

250+ graduate students enrolled in AI courses, including the graduate certificate program in AI/data science

180 students enrolled in new digital intelligence course for science and humanities

AI and employment community outreach programs

RESEARCH HIGHLIGHTS

More than $21 million in total funding, including:

$4.2M DARPA grant: AI for real-world understanding

$4.3M NIH grant: Understanding the neurobiology of Alzheimer’s disease with AI

$3.2M NIH grant: Improving fetal monitoring with AI

$1.2M NSF grant: Predicting human behavior with machine learning

$1.1M DOE National Offshore Wind Consortium: AI-driven wind farm design

NSF Major Research Instrumentation grant to build AI computing infrastructure

TOP 10 program in computer vision, nationally — csrankings.org

For more information, please visit ai.stonybrook.edu