MISSION

Open Learning seeks to transform teaching and learning on campus and around the world by opening the innovations and opportunities of MIT to learners and educators across all levels of education.

We *open* learning to transform teaching and learning at MIT and around the globe. We believe education can bridge the gap between opportunity and advancement regardless of personal circumstance.

By creating new pathways to access MIT's learning and teaching resources, MIT Open Learning helps expand the prospects of learners and educators interested in improving their knowledge and livelihood. We are a community dedicated to educational access, advancing knowledge, and learning effectiveness. By reshaping what teaching and learning means on campus and beyond, we better prepare learners for today, and equip future generations with the knowledge and skills to innovate and adapt to the demands of tomorrow, building the foundation for a better future for all.

We *Open* Learning

Led by Vice President for MIT Open Learning Sanjay Sarma, we work with MIT faculty, students, and staff to further our scientific understanding of teaching and learning; to innovate, test, and scale digital tools and new technologies; to conduct and share learning research; and to address emerging global needs and technological developments in education.

In short, MIT Open Learning is reinventing education.

Learning and Teaching. MIT Open Learning expands educational opportunities for learners across the globe by leading the next generation of digital and blended learning technologies, platforms, and communities. From professional education tracks to rich online libraries of content to improving the residential student experience online and on campus, we are committed to developing new and more agile pathways accessible for learners of diverse backgrounds and competencies.

Research and Innovation. Building on MIT's leadership as a research institution, MIT Open Learning brings an interdisciplinary research lens to education, using learning science to inform the design and implementation of educational technologies and resources to best support differentiated or personalized learning and increase learning effectiveness. Research efforts fueled by the MIT Integrated Learning Initiative (MITili) span the latest developments in teaching and learning – developing and testing tools and interventions that enable educators to better design curriculum, pedagogy, and tools that support learners of all ages reach their fullest potential. We deploy computation visualization and neuroscience to understand the educational, social, and cognitive impacts of different interventions in and outside the classroom. We investigate the capabilities of vanguard technologies like virtual and augmented reality and artificial intelligence to deliver educational experiences in new ways, explore new frontiers in storytelling and social impact, and to empower learners to be ethical creators and consumers of these new technologies.

Impact and Scale. MIT Open Learning collaborates with faculty, educators, leaders, and innovators across the globe on a diverse range of projects and initiatives to improve education for learners of all ages, and co-design solutions to address educational challenges unique to learners' circumstances, from pK-12 and higher education, to refugee education and workplace learning. The Abdul Latif Jameel World Education Lab (J-WEL) is one such collaborative ecosystem, working with a global community of members for sustainable, high-impact transformation in education through research, policy, pedagogy, and practice across pK-12, higher education, and workplace learning. Open Learning also supports the collective energy of the pK-12 Action Group, raising visibility for a vibrant community of over 40 programs across MIT developing new approaches to STEAM education for young learners.

With this inclusive framework – from research to practice, curriculum to pedagogy, tools to socioemotional wellbeing - MIT Open Learning brings the educational energy of MIT together to power a better world for all -- where educational opportunity is possible for anyone, regardless of ethnicity or economic status.

As `vice president for open learning, Sanjay Sarma` leads efforts to effect high-impact, research-driven change in how we approach teaching and learning across all ages, from pre Kindergarten, higher education, to the workplace. The various programs and labs in MIT Open Learning each represent a vital stage in an interconnected vision of spreading the highest-quality educational change at scale. Sarma is also the Fred Fort Flowers (1941) and Daniel Fort Flowers (1941) Professor of Mechanical Engineering at MIT.

How You Can *Open* Learning

The MIT Open Learning Fund supports MIT's efforts to undertake bold experiments in digital and blended learning and scale educational content on and beyond campus. Your support will help make the greatest impact in building new networks of learner communities, advancing technologies that deliver adaptive, personalized learning at all levels of education, and supporting the sustainable future of these very networks and tools. Your contribution *opens* learning.

MIT | Open Learning

EXAMPLES OF AREAS IN NEED OF SUPPORT

Foster Innovation in Teaching and Learning

- Deepen student learning by enhancing faculty pedagogy and improving connections between theory and application through the MIT Integrated Learning Initiative (MITili) and on-campus programs such as Residential MITx.

- Share MIT's teaching with learners worldwide through online courses, open content libraries, and platforms such as MITx, OpenCourseWare, and the MIT Open Learning Library.

- Advance blended and flexible pathway credentials like the MicroMasters and holistic learner support through programs like the MIT Refugee Action Hub (ReACT), developing new forms of Agile Continuous Education.

Drive the Next Generation of Digital Innovation

- Build, test, and scale new digital learning tools and pedagogies, including more sophisticated assessments, learning games, simulations, modules and platforms like MIT Open.

- Fund grant programs enabling MITili to expand the learning science community at MIT, raise the visibility of this initiative, attract talented faculty and researchers, and support innovative new work in this emergent field.

- Provide new insights into learning by leveraging data available from digital platforms and amplify and disseminate research through community outreach events and publications.

Advance Opportunity and Work in the Emerging Intersections of Digital Learning and Educational Technology

- Enable deep exploration and infrastructure creation for new learning frameworks by exploring the vast potential of virtual reality, virtual presence, 360-degree immersive video, augmented reality, and other immersive media technologies.

- Enable learners to more easily find, connect, and learn with researchers, practitioners, and other students worldwide based on shared ambitions and passions through platforms like MIT Open.

- Facilitate a global network of partners to create new education and employment pathways for refugees and learners from underserved communities.

- Support hands-on, interactive digital pK-12 curriculum creation and sharing in STEAM fields including artificial intelligence and machine learning.

Philanthropic support of MIT Open Learning advances MIT's forward-thinking work in the emerging intersections of digital learning, educational technology, and learning science, harnessing their collective power to make new learning available to educators and learners around the world. Come join us in *opening* learning.

"I love mathematics. Especially recently, as I was made more aware to it's marvels, I could not stop thinking about mathematics. Yes I am obsessed. Given the majority of my learning is currently self contained, I knew well that I could benefit from rigor. Practicing real analysis with MIT practice exams and with their homework assignments both gives me incredible experience with mathematics and confidence, which will likely prolong my engagement with mathematics."
-Kyle, high school student, USA

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