MIT Digital Learning

Providing Quality Education at Scale

May 8, 2017

Roksi Freeman

OFFICE OF DIGITAL LEARNING

Our Mission

To transform teaching and learning at MIT and around the globe through the innovative use of digital technologies.

MIT OpenCourseWare

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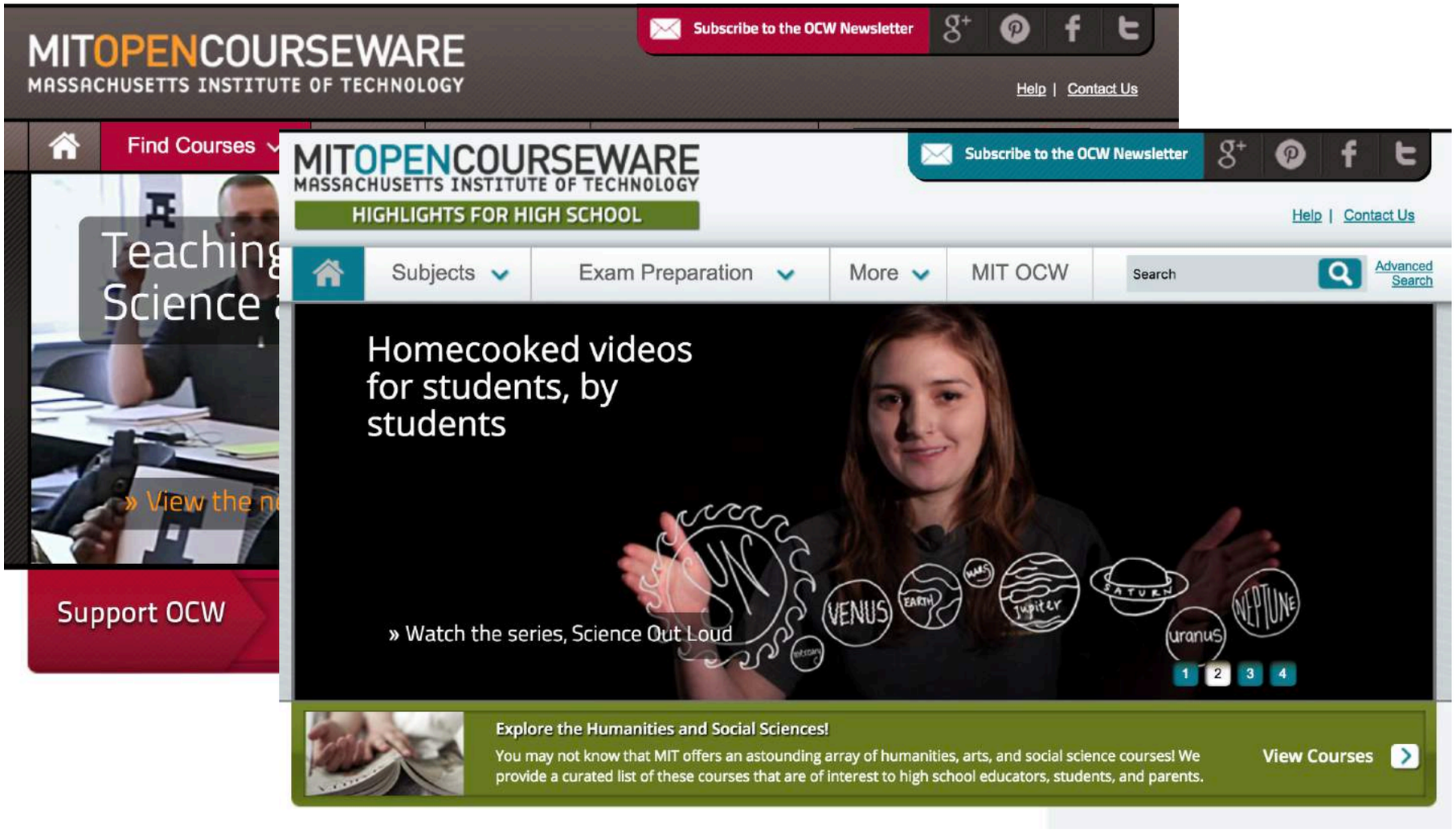
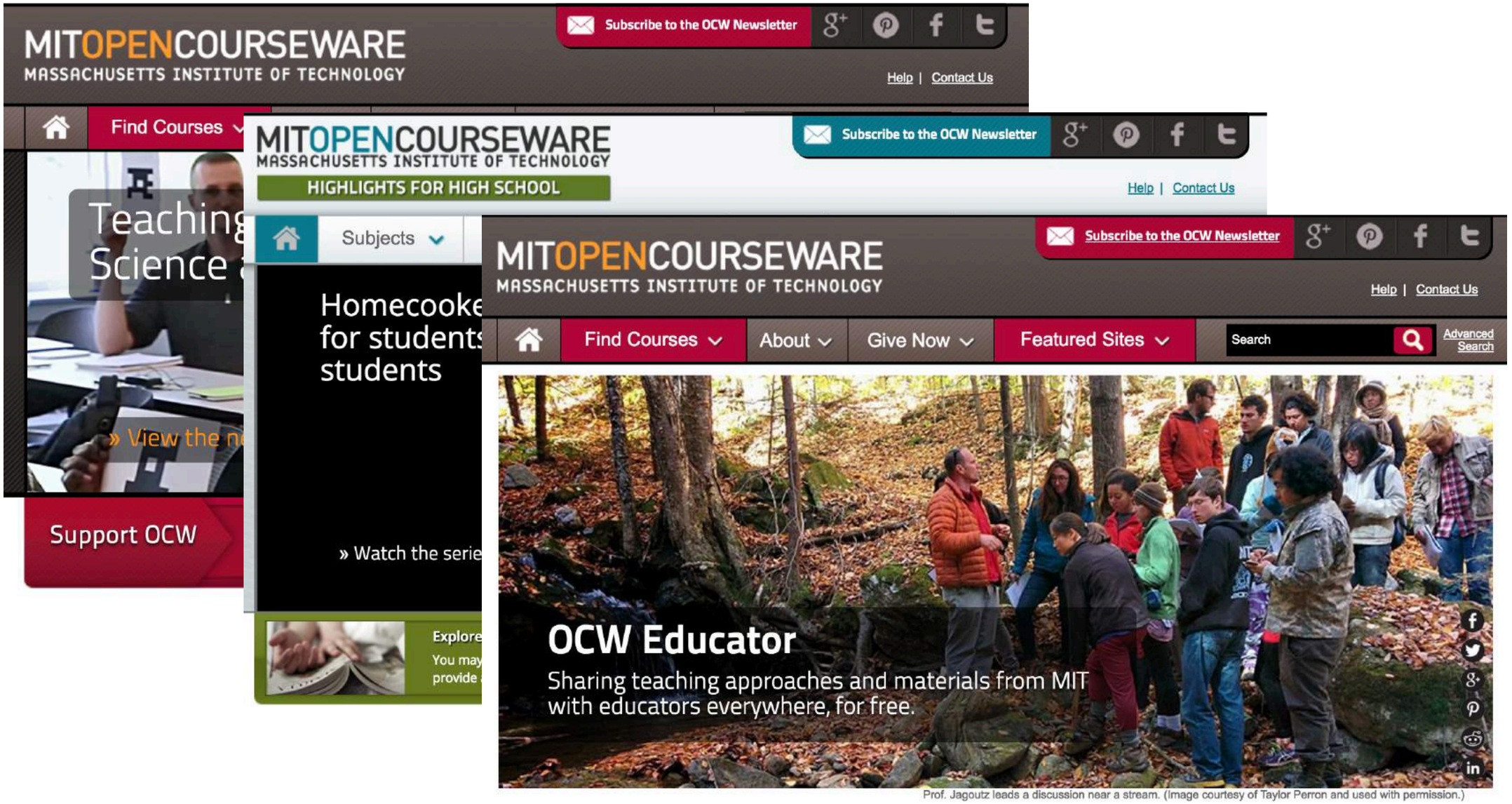


MIT OpenCourseWare



Prof. Jagoutz leads a discussion near a stream. (Image courtesy of Taylor Perron and used with permission.)

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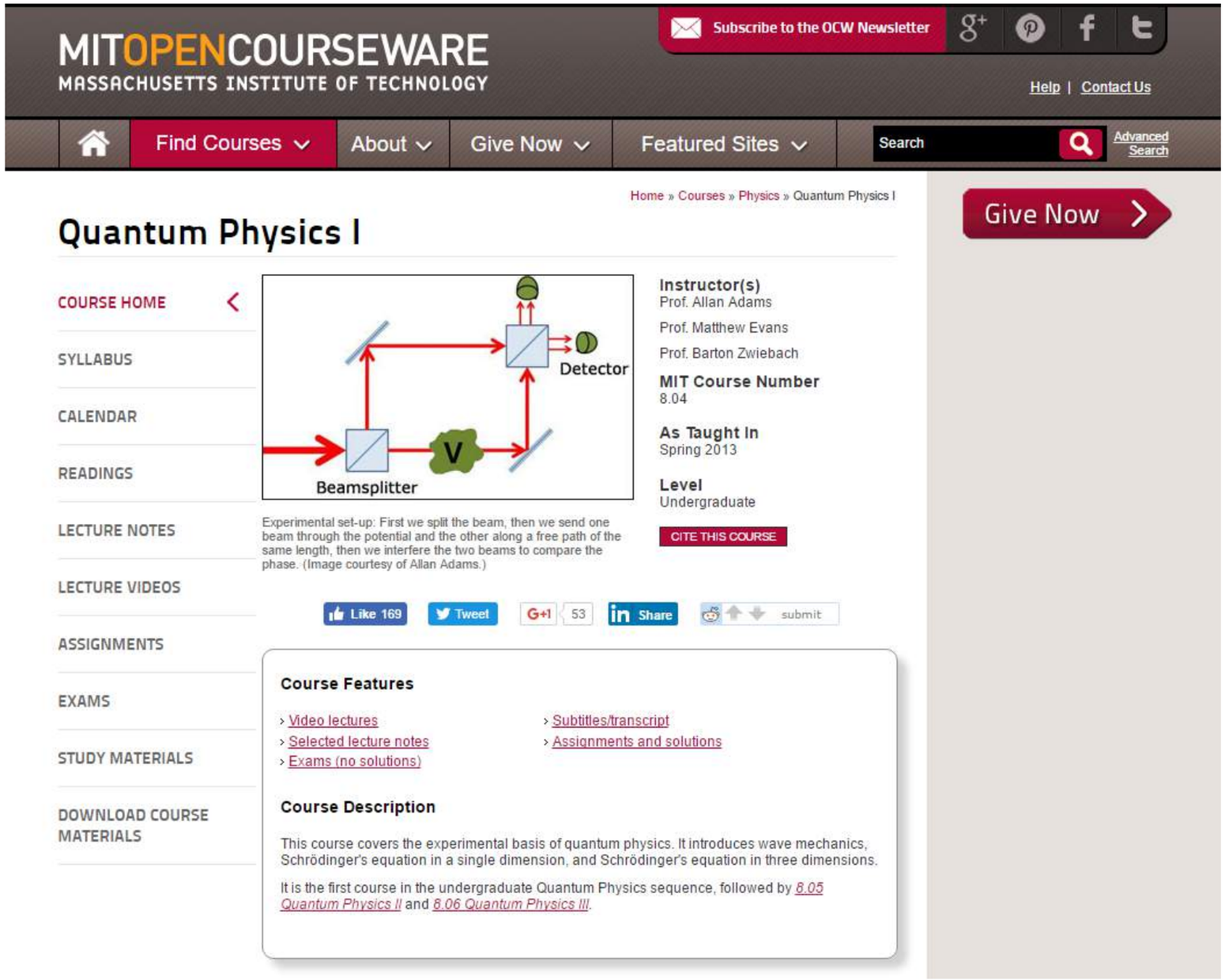
MIT OpenCourseWare



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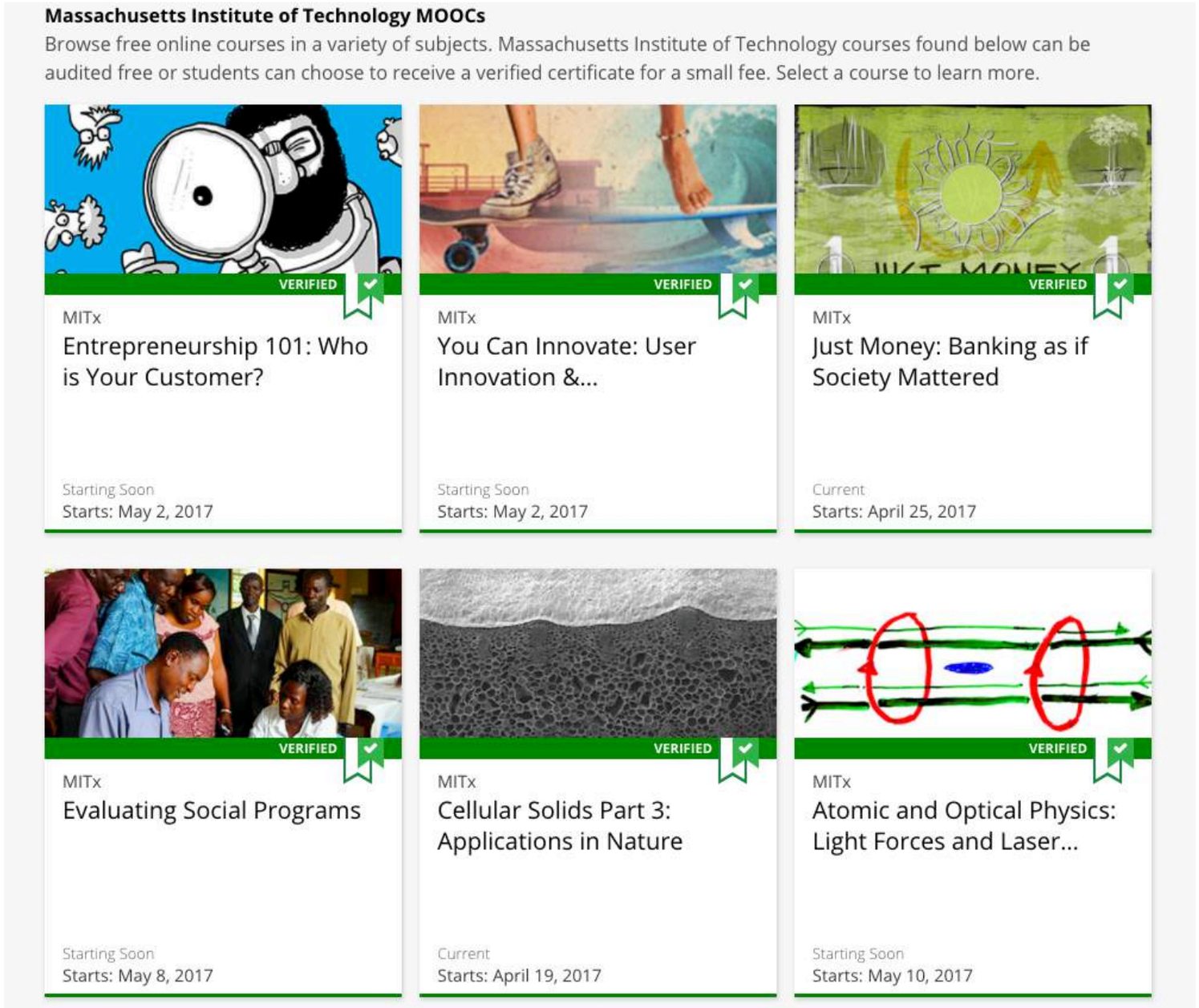
MITx


Massachusetts Institute of Technology MOOCs
Browse free online courses in a variety of subjects. Massachusetts Institute of Technology courses found below can be audited free or students can choose to receive a verified certificate for a small fee. Select a course to learn more.
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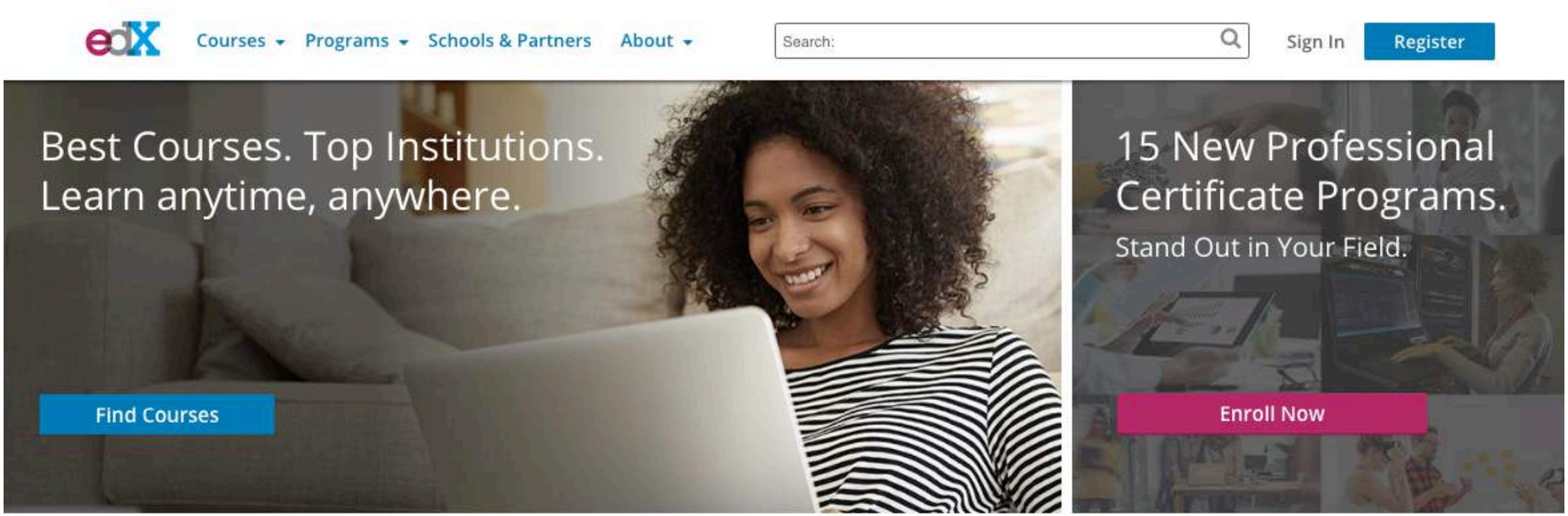
MITx
Entrepreneurship 101: Who is Your Customer?
Starting Soon
Starts: May 2, 2017
VERIFIED
MITx
You Can Innovate: User Innovation &...
Starting Soon
Starts: May 2, 2017
VERIFIED
MITx
Just Money: Banking as if Society Mattered
Current
Starts: April 25, 2017
VERIFIED
MITx
Evaluating Social Programs
Starting Soon
Starts: May 8, 2017
VERIFIED
MITx
Cellular Solids Part 3: Applications in Nature
Current
Starts: April 19, 2017
VERIFIED
MITx
Atomic and Optical Physics: Light Forces and Laser...
Starting Soon
Starts: May 10, 2017

edX



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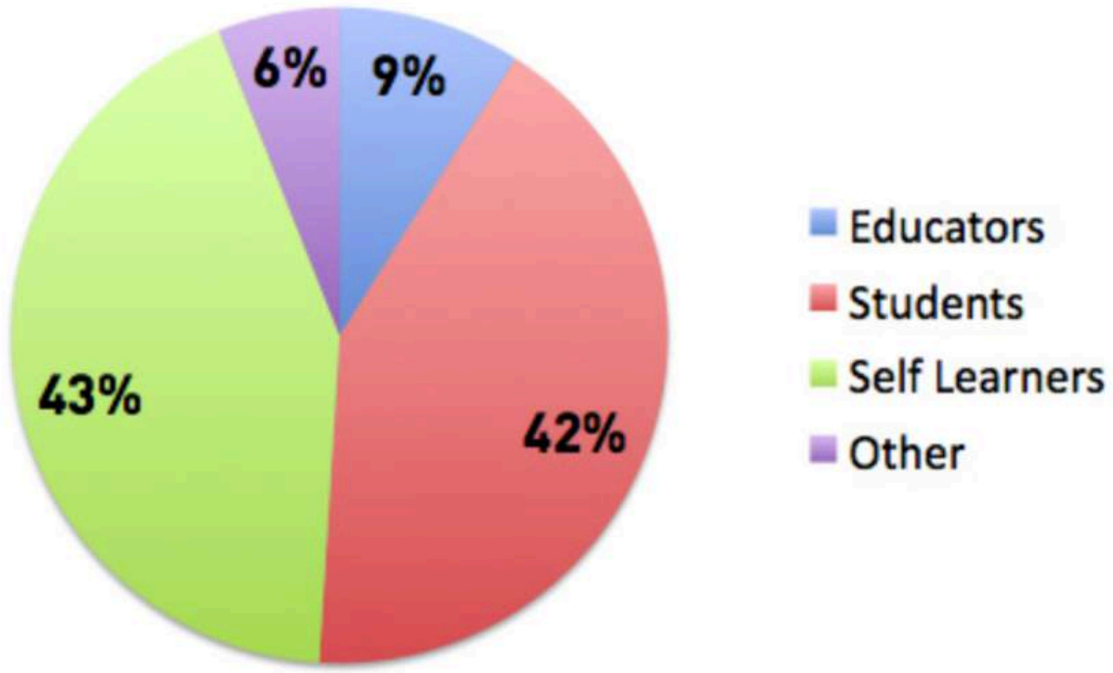
MIT Digital Learning Today

- Used by students, educators, independent learners and professionals

- Over 200 million people have accessed our materials

- Accessed by almost every country in the world



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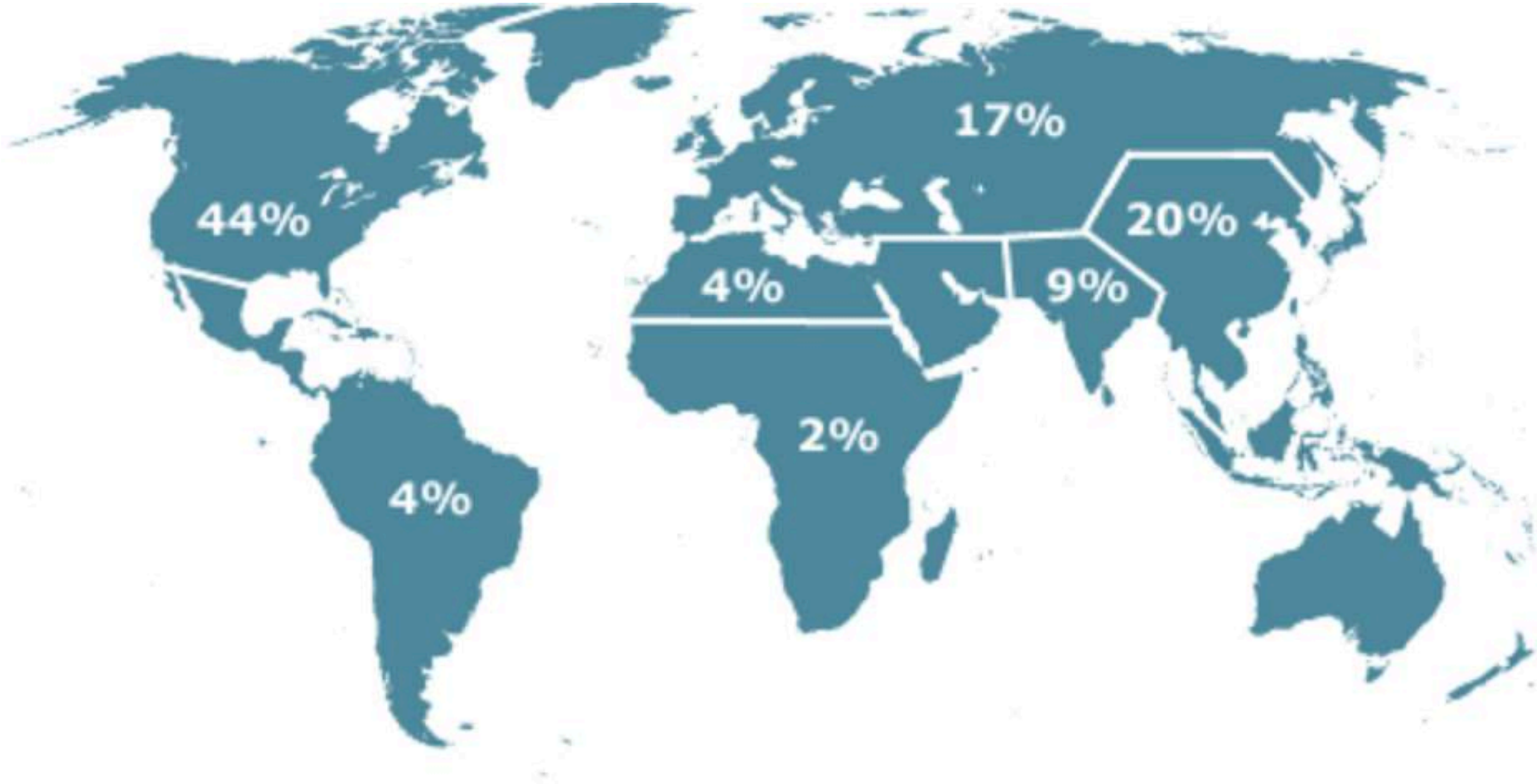
Digital tools on MIT's campus

MIT faculty are using the MITx program to:

- Provide students with rapid feedback
- Augment learning with simulations and visualizations
- Provide flexibility in course delivery

Thank you!

Worldwide Usage



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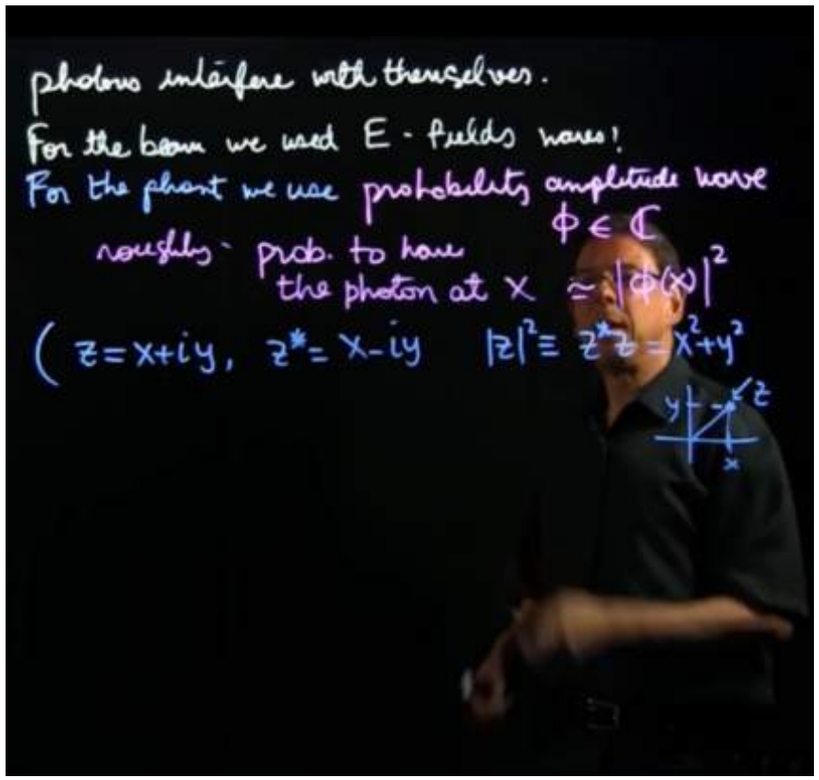
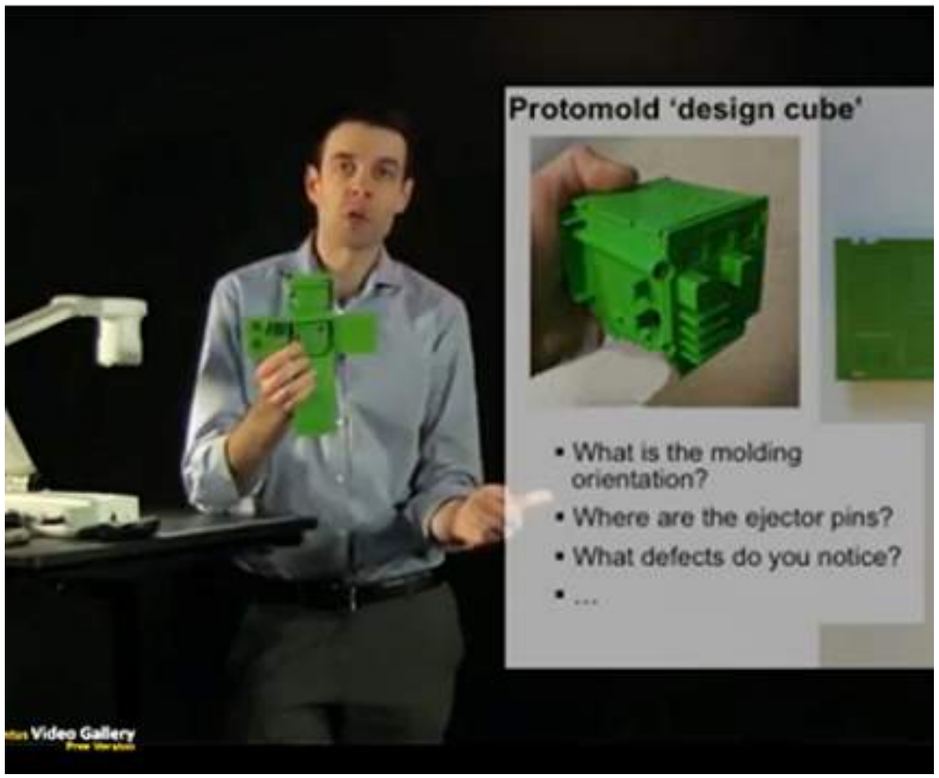
ODL


photons interfere with themselves.
For the beam we used E-fields waves!
For the photon we use probability amplitude wave
$\phi \in \mathbb{C}$
roughly: prob. to have the photon at x $\simeq |\phi(x)|^2$
$z = x+iy$, $z^* = x-iy$ $|z|^2 \equiv z^* z = x^2+y^2$
y
z
x


Protomold 'design cube'
• What is the molding orientation?
• Where are the ejector pins?
• What defects do you notice?
• ...
Video Gallery

MITx Courses

Wolfgang Ketterle
http://odl.mit.edu/news-events/blog/wolfgang-ketterle-transformative-power-digital-education (video)

Lorna Gibson
https://www.youtube.com/watch?v=DvzoDFWQtHw&feature=youtu.be (video)

Simona Socrate http://odl.mit.edu/sites/default/files/Case-Study-2.001.pdf (case study)

Popular Courses Starting Soon

View All Courses

VERIFIED

PennX

Software Development Fundamentals

Starting Soon

Starts: May 15, 2017

VERIFIED

DartmouthX

Retail Fundamentals

Starting Soon

Starts: May 10, 2017

VERIFIED

UCSanDiegoX

How Virtual Reality (VR) Works

Starting Soon

Starts: May 15, 2017 - Self-Paced

VERIFIED

Microsoft

Analyzing and Visualizing Data with Excel

Current

Self-Paced

VERIFIED

ColumbiaX

Machine Learning for Data Science and Analytics

Starting Soon

Starts: May 15, 2017 - Self-Paced

CREDIT-ELIGIBLE

BerkeleyX

Agile Development Using Ruby on Rails - Basics

Starting Soon

Starts: May 9, 2017

VERIFIED

CatalystX

Communication Skills for Bridging Divides

Current

Self-Paced

VERIFIED

W3Cx

HTML5 and CSS Fundamentals

Starting Soon

Starts: May 30, 2017 - Self-Paced

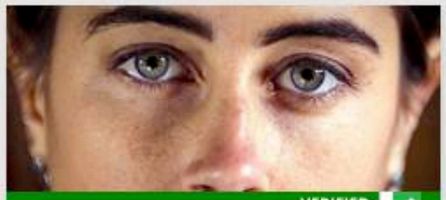
VERIFIED

HKUSTx

Introduction to Java Programming – Part 1

Current

Self-Paced



VERIFIED

UQx

The Science of Everyday Thinking

Current

Self-Paced

VERIFIED

ETSx

TOEFL® Test Preparation: The Insider's Guide

Current

Starts: May 3, 2017

PROFESSIONAL EDUCATION

Wharton

Managing the Value of Customer Relationships

Current

Self-Paced

edX Programs Starting Soon

View All Programs

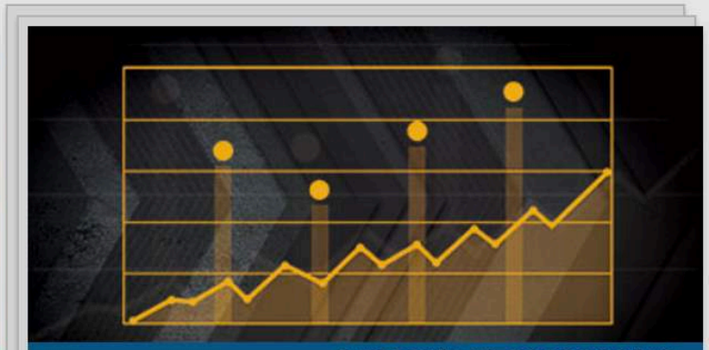
PROFESSIONAL CERTIFICATE PROGRAM

PennX

Computer Science Essentials for Software Development

Learn essential computer science concepts in order to design efficie...

Current



MICROMASTERS PROGRAM

GTx

Analytics: Essential Tools and Methods

Learn fundamental, in-demand analytics skills to maximize busine...

Current

MicroMasters

MICROMASTERS PROGRAM

RITx

Cybersecurity

Launch your career in a high demand industry that projects 2...

Current

MicroMasters