



Innovating Education for Better Health

June 9, 2021

Virtual Talking Circle

Getting Engaged in Education Innovation Across Campus

Virtual Talking Circles to Date

**JOIN OUR
VIRTUAL TALKING CIRCLE**



a space for community dialogue on
creative ideas, novel experiments, and best practices in
health sciences education

Topics: *“Innovation in a Time of Crisis”, “Virtual Communities of Practice”, “Virtual Care”, “Learners as Co-producers”, “Anti-Racism as an Innovation”, “Intelligent Risk-Taking”, “Failure”, “Why Vision?”, “RISE Vision”, “Innovation Systems”*

Why We Are Sharing These Resources

01

SHARE

Share existing
resources

02

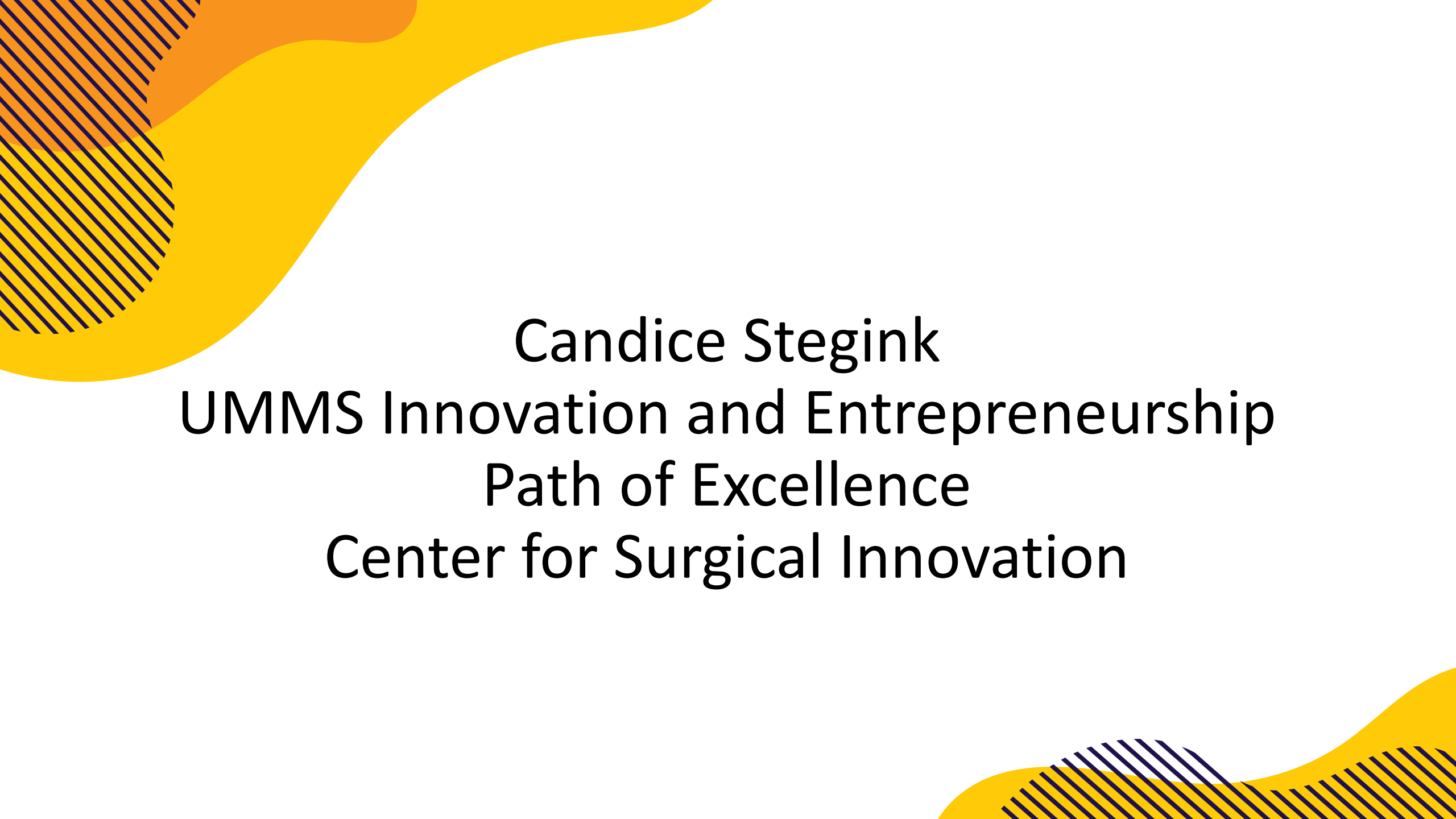
PROMOTE

Promote
awareness of
opportunities to
engage in
education
innovation

03

CULTIVATE

Cultivate a
culture of
collaboration



Candice Stegink
UMMS Innovation and Entrepreneurship
Path of Excellence
Center for Surgical Innovation



Center for Surgical Innovation

M | MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN

Get Involved

- International Grand Rounds
 - Imperial College of Medicine in London
- Join our CMSXR Working Group!
 - Focus areas:
 - Simulation and Education with XR
 - Telemedicine/Telerounding, teleconsulting, telesurgery
 - AI/Machine Learning with XR for medical decision making
 - Bi-Weekly on Thursday's @5pm. 60 faculty, residents, students and 18 departments represented. School of nursing, CAI, CSC, Engineering
- XR Request Form:

<https://forms.gle/KGnodiTQVig9UTP28>

Center for Surgical
Innovation



MICHIGAN MEDICINE
UNIVERSITY OF MICHIGAN



- New Office/Lab Space – Coming July 2021 to Med Sci I!
- Michigan Surgical Innovation Accelerator Prize
 - \$25k Awards for Surgical Innovations
- Innovation & Entrepreneurship Path of Excellence
 - Over 100 medical students involved in program

Center for Surgical Innovation



Contact us!

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Jeremy Nelson
Center for Academic Innovation

Bring XR Technologies Campus-Wide

- Integrate XR into residential curricula for all 19 schools and colleges
- Integrate XR into online curricula
- Create innovative public/private partnerships



XR Innovation Projects

RECEIVED

31

Proposals



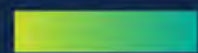
4/7 Engineering



4/5 Architecture & Urban Planning



3/5 Literature, Science, and the Arts (LSA)



3/3 Nursing



2/4 Medical School



1/2 Dentistry



1/1 Information



1/1 Law



1/1 School of Music, Theater & Dance



1/1 School of Environment & Sustainability



1/1 Social Work

FUNDED

22

Projects

COLLABORATED WITH

11

Schools

Engaging the XR Initiative



- XR Consultations
- XR Equipment
- Innovation Fund

ai.umich.edu/xr

xr-initiative@umich.edu





Lauren Atkins Budde
Center for Academic Innovation

Shaping the future of higher education

Curricular Innovation



Teach-Outs

New model for participatory public engagement



MOOCs

Targeted open learning



Specializations

Deep dive skill-building



Collections

Curated short form interdisciplinary educational content



MasterTrack

Cohort-based pathway to advanced degrees and career advancement



Online Degrees

Fully online degree programs and learning communities

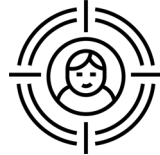
Educational Data & Research



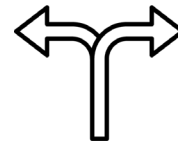
Data Analytics



Surveys, Interviews & Focus Groups

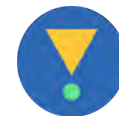


Natural Experiments



Randomized Controlled Trials

Tools for Learning



157K Learners

Canada

153K Learners

Great Britain

154K Learners

China

1.2M Learners

US

98K Learners

Spain

108K Learners

Germany

1.5M Learners

India

141K Learners

Mexico

107K Learners

Egypt

196K Learners

Brazil

14.3M

Enrollments

8.3M

Unique learners

100%

UN recognized countries

Top 10 Countries

- 1. India
- 2. US
- 3. Brazil
- 4. Canada
- 5. China
- 6. Great Britain
- 7. Mexico
- 8. German
- 9. Egypt
- 10. Spain

How Do You Get Engaged with CAI?

- Check out our website and send a request to consult: <https://ai.umich.edu/> or **contact us via email at academicinnovation@umich.edu**
 - Online & Hybrid Degrees
 - Open Online Content (MOOCs/Teach-Outs)
 - Software/Tools
 - Public Engagement Initiatives
 - Research & Learning Analytics
- Visit Michigan Online, share broadly, and send us ideas for this learning destination: <http://online.umich.edu/>






Jon Servoss
Fast Forward Medical Innovation



Education

Tailored learning opportunities,
for faculty and students,
clinicians and researchers.



UNIVERSITY OF MICHIGAN
Research Funding
Search Consultation
What funding is available?
Where do I look?
How do I start my search?
What tool should I use?

Funding & Mentorship

Resources advancing biomedical research
onto viable commercial paths.



FAST FORWARD
medical innovation



Business Development

Professional guides for industry
collaborations.



Innovation Hub

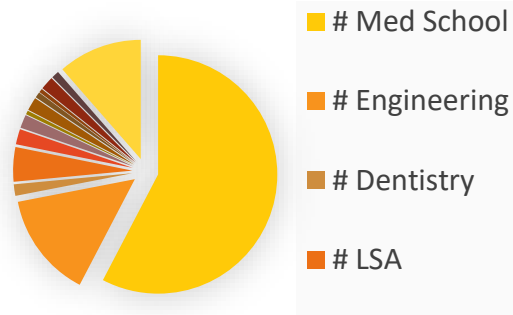
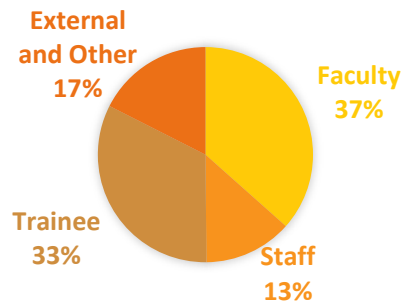
Statewide programs making impact across
the region.



Helping biomedical
researchers accelerate
innovations from idea to
impact.

FFMI Education & Training

- Lectures/workshops/webinars (1 hour)
- Extra curricular courses/programs (multi-week)
- Credit bearing classes (3 credits)
- Customized programming



**3,500+
Participants**

**~50 New
Projects
Each Year**

**\$30+ Million
Follow-on
Funding**

**31 Trained
Institutions**

**7 Published
Articles/Abstr
acts**

How to get involved

- Online content (anytime)
- Idea consultation (by request)
- Innovation Studio (registration)
 - 3rd Tuesday of month
- FFMI *fastPACE* Course (registration)
 - Formulate a business case
 - Connect to resources



FFMI *fastPACE*

<https://innovation.medicine.umich.edu/> for more information or Jonathan Servoss servossj@umich.edu

Discussion

How should health sciences education be **influenced** by these initiatives?

Some of these initiatives reside in the medical school, some exist across the university. What **enablers** help faculty, staff and students work on these different initiatives?