2020 全球智慧教育大会

MOOCS and OER Inclusive Experiences in North America and Beyond

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Indiana University
cjbonk@Indiana.edu
http://curtbonk.com/

Open Educational Resources

Host | 北京师范大学 Organizers | CIT

1

Inclusive Education

Dona Rai, OER Commons
https://www.oercommons.org/authoring/52043-inclusive-education/1/view

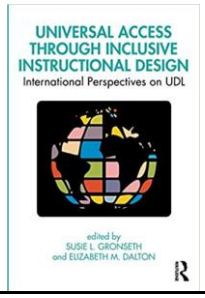
Inclusive education means that all the students in a school, regardless of their strengths or weaknesses in any area, become part of the school community.

OER COMMONS

2

Universal Access Through Inclusive Instructional Design
Susie Gronseth and Elizabeth Dalton

https://www.amazon.com/Universal-Access-Through-Inclusive-Instructional-dp-1138135108/dp/1138135108/ref=mt_other?_encoding=UTF8&me=&qid=

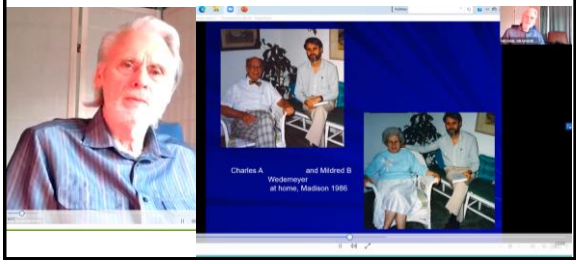


3

August 6, 2020

Historical talk by Michael Grahame Moore for award ceremony at the Wisconsin DT&L 20/20 Conference, Michael G. Moore

https://sites.google.com/view/ai-and-quantum-dtl/home
Video (12:08): https://youtu.be/RlgOjJ7T8sM



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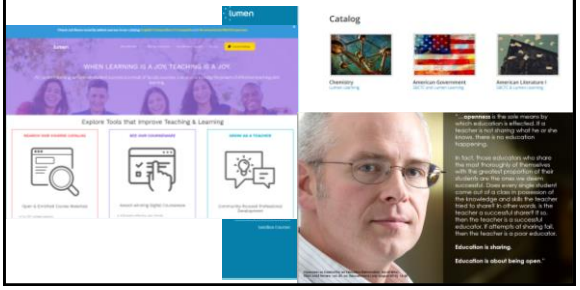
Lumen Learning
David Wiley

https://lumenlearning.com/

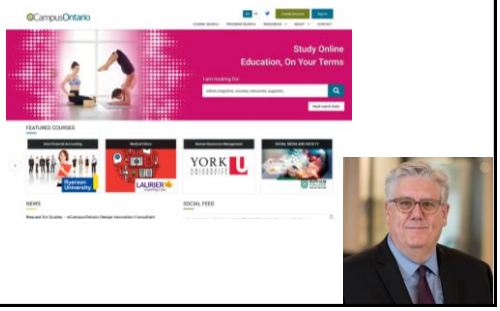


5

April 4, 2001
The Emergence of Open Education

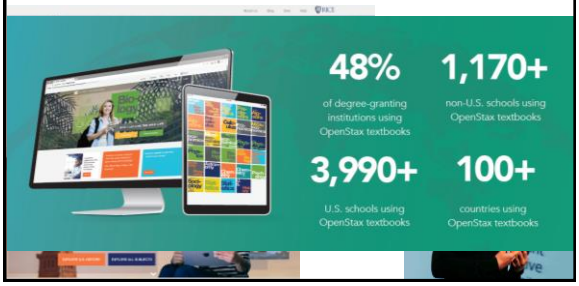
6

eCampusOntario
David Porter, CEO, eCampus Ontario
https://www.ecampusontario.ca/



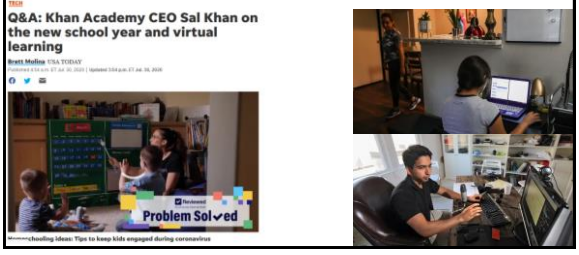
7

OpenStax (Rice University)
Richard Baraniuk, Rice University
https://openstax.org/



8

July 31, 2020
Khan Academy aims to give 'strategic supplement'
Brett Molina, USA Today
https://www.usatoday.com/story/tech/2020/07/30/khan-academy-ceo-sal-khan-prepping-fall-virtual-learning/5525480002/



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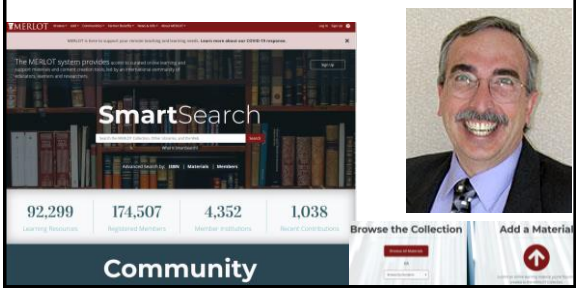
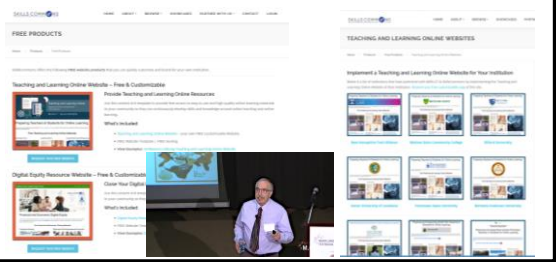
August 20, 2020
MERLOT
https://www.merlot.org/merlot/



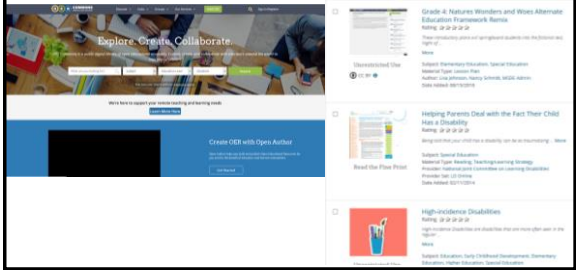
10

May 8, 2020
MEROT/Skills Commons
http://partner.skillscommons.org/products/free-products/tl-sites/
http://partner.skillscommons.org/products/free-products/
We (MERLOT/SkillsCommons) have been helping campuses aggregate resources to help their campuses move online -



11

August 20, 2020
OER Commons
https://www.oercommons.org/browse?f.keyword=special-education



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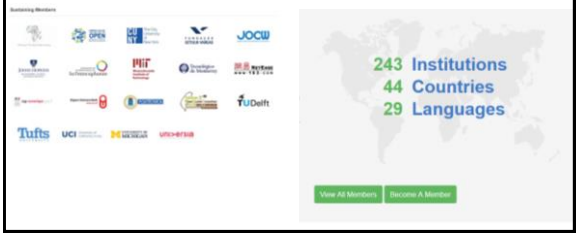
Fast Forward to 2020

MIT OCW and the OpenCourseWare Consortium

http://www.oeconsortium.org/

http://www.oeconsortium.org/resources/webinars/



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Fast Forward to 2020

MIT OCW and the OpenCourseWare Consortium Webinars

http://www.oeconsortium.org/

http://www.oeconsortium.org/resources/webinars/

14

January 10, 2018

The Truth (About OER) Is Out There

Mark Lieberman, Inside Higer Ed

https://www.insidehighered.com/digital-learning/article/2018/01/10/finding-oer-remains-challenging-solutions-abound

15

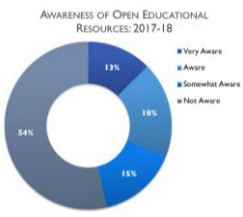
January 9, 2019

2018 National Higher Education Report

Freeing the Textbook: Open Education Resources in U.S. Higher Education, 2018

Julie E. Seaman and Jeff Seaman

https://www.onlinelearningsurvey.com/reports/freeingthetextbook2018.pdf



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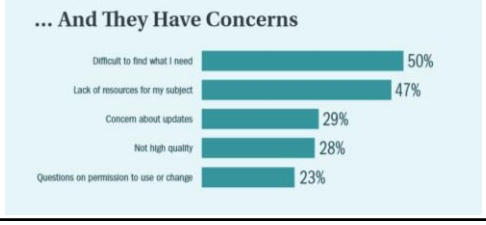
June 7, 2018

Open Educational Resouces

The Chronicle of Higher Education

http://images.results.chronicle.com/Web/TheChronicleofHigherEducation/%7B0cbd562d-5eee-4c74-88e4-4894148213e1%7D_2018_OpenEducationResources_Infographic_v4.pdf



17

April 20, 2020

New website offers tips for teachers about virtual special education

Carolyn Jones, April 20, 2020, EdSource

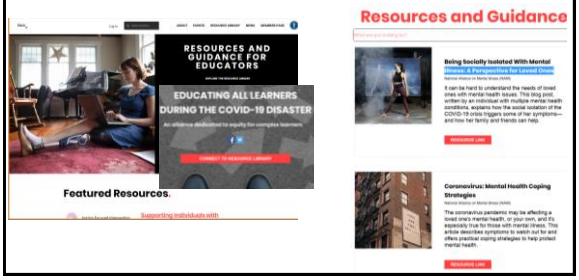
Teachers can share ideas online for serving students with disabilities during the pandemic

https://edsource.org/2020/new-website-offers-tips-for-teachers-about-virtual-special-education/628741

18

July 26, 2020

EDUCATING ALL LEARNERS DURING THE COVID-19 DISASTER
An alliance dedicated to equity for complex learners
https://www.educatingalllearners.org/
Resources and Guidance for Educators
https://www.educatingalllearners.org/for-educators
https://www.educatingalllearners.org/educator-resources



19

May 27, 2020

Webinar by Curt Bonk and Meina Zhu on "Research Issues and Findings of MOOCs: Leading to Better Design Practices" for the Commonwealth of Learning (COL)
https://youtu.be/kmsWZi3vyrg

20

June 3, 2020

Contact North | Contact Nord Webinars
https://teachonline.ca/webinars
June 29, 2020 Contact North Webinar, Curt Bonk, IU, How to Motivate and Retain Learners Online
https://youtu.be/1uMc7pOO2to

21

March 21, 2020

Silver Lining for Learning
https://silverliningforlearning.org/
https://www.youtube.com/channel/UC9XEsh89qrIlpmVVpQt-_aA/live

22

March 3, 2020

Keep Teaching, Indiana University
https://keepteaching.iu.edu/strategies/index.html

23

July 23, 2020

6 ways to be more inclusive in a virtual classroom
Flower Darby, Chronicle of HE
https://www.chronicle.com/article/6-quick-ways-to-be-more-inclusive-in-a-virtual-classroom

Inclusive Virtual Classroom:

1. **Provide course content in 2 formats.**
2. **Allow options on how students complete assignments.**
3. **Give choice in final project.**
4. **Reach out to help students.**
5. **Use picture to depict how feeling.**

24

August 5, 2020

Fostering an Inclusive Classroom

Tracie Marcella Addy, Derek Dube and Khadijah A. Mitchell, Inside Higher Ed

https://www.insidehighered.com/advice/2020/08/05/small-steps-instructors-can-take-build-more-inclusive-classrooms-opinion

1. **Provide more instructional supports.**
2. **Eliminating expensive course Materials.**
3. **Including alternative assignments (for sick).**
4. **Survey about tech access, preferences, and special needs (get to know them).**

25

Make Commitments:

Stop and Share in Chat Window:

Which principle(s) of TEC-VARIETY will you use?

http://tec-variety.com/

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

What motivates?

1. **Tone/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Curiosity:** Surprise, Intrigue, Unknowns
4. **Variety:** Novelty, Fun, Fantasy
5. **Autonomy:** Choice, Control, Flexibility, Opportunities
6. **Relevance:** Meaningful, Authentic, Interesting
7. **Interactivity:** Collaborative, Team-Based, Community
8. **Engagement:** Effort, Involvement, Investment
9. **Tension:** Challenge, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

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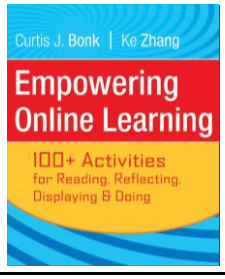
The R2D2 Model:
Read, Reflect, Display, Do…



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April 11, 2020

Threaded Video Discussions and Questions

(e.g., Flipgrid)

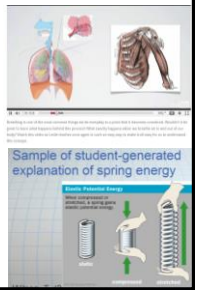
Ed Tech with Adam: https://www.youtube.com/watch?v=hysv0PwqsFs

https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/

28

Interactive Labs and Simulations

http://phet.colorado.edu/en/simulation/energy-skate-park



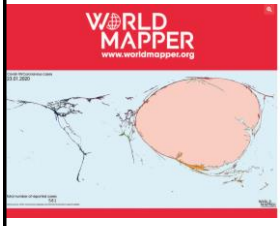
29

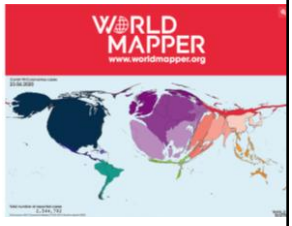
June 7, 2020

Animations of Data

World Mapper, COVID-19

https://worldmapper.org/map-animation-covid19/
https://www.youtube.com/watch?v=6uu1MGyGjvI

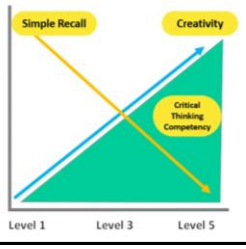


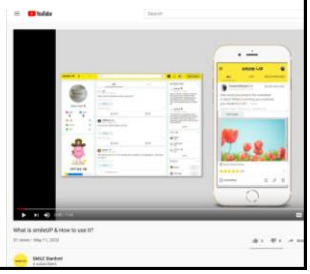


30

May 11, 2020

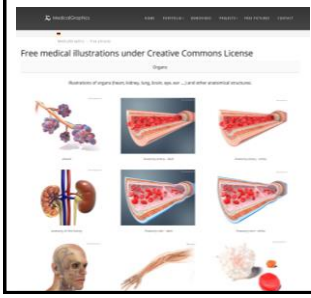
What is smileUP & How to use it?
SMILE, Stanford
https://www.youtube.com/watch?v=pblU8sSALWo





31

More Royalty Free Images
Medical Graphics in Creative Commons
http://www.medicalgraphics.de/en/free-pictures.html



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April 29, 2020

Animated Videos
Animated COVID-19 prevention video goes viral
Mandy Erickson, SCOPE Stanford Medicine
https://scopeblog.stanford.edu/2020/04/29/animated-covid-19-prevention-video-goes-viral/
https://www.youtube.com/watch?v=UcFDdfueQRg

33

Reading and Reviewing articles in Open Access Science Journals
(e.g., DOAJ—Directory of Open Access Journals)
https://doaj.org/
Open access journals for kids:
https://sciencejournalforkids.org/about-us.html
https://kids.frontiersin.org/
https://sciencejournalforkids.org/about-us.html

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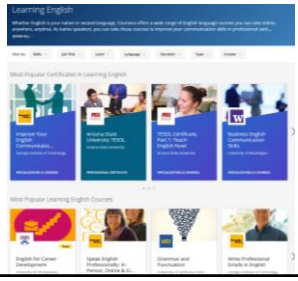
July 18, 2020

Enroll in a MOOC and Reflect
(e.g., see Class Central)



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MOOC Trends and Recent Data

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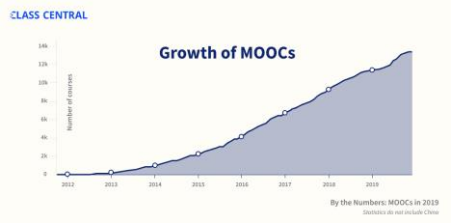
MOOCs Stats

December 17, 2019

A Review of MOOC Stats and Trends in 2019
Dhawal Shah, Class Central
https://www.classcentral.com/report/moocs-stats-and-trends-2019/



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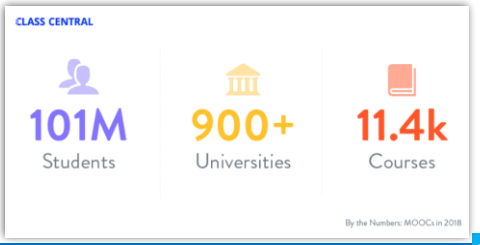
MOOCs Stats

Year of MOOC-based Degrees: A Review of MOOC Stats and Trends in 2018, Dhawal Shah, Class Central--January 6, 2019



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MOOCs Stats

December 17, 2019

A Review of MOOC Stats and Trends in 2019
Dhawal Shah, Class Central
https://www.classcentral.com/report/moocs-stats-and-trends-2019/

Here's how the top-5 MOOC providers currently look in terms of users and offerings:

	Learners	Courses	Microcredentials	Degrees
Coursera	45 million	3,800	420	16
edX	24 million	2,640	292	10
Udacity	11.5 million	200	40	1
FutureLearn [2,4]	10 million	880	49	23
Swayam [2,3]	10 million	1,000	0	0

That is why I called the rise of online degrees the second wave of MOOC hype and 2018, the year of MOOC based degrees.

	2017	2018	2019
Coursera	4	11	16
edX	1	9	10
FutureLearn	4	18	23
Udacity	1	1	1
Total	10	39 (+29)	50 (+11)

But in 2019, the hype seems to have subsided: only 11 online degrees were announced this year. The total number of MOOC based degrees has now grown to 50.

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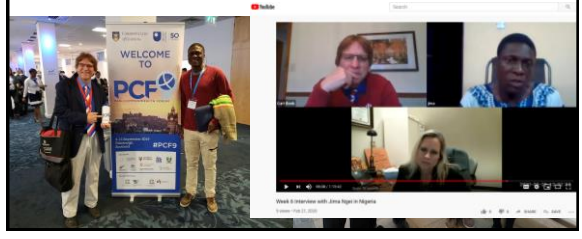
Hundred+ MOOC Clubs

September 11, 2019

250 MOOCs and Counting: One Man's Educational Journey, Chronicle of Higher Education
http://chronicle.com/article/250-MOOCsCounting-One/229397/?cid=at
If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.



40

June 19, 2018

How Blockbuster MOOCs Could Shape the Future of Teaching
Jeffrey R. Young, EdSurge
https://www.edsurge.com/news/2018-06-19-how-blockbuster-moocs-could-shape-the-future-of-teaching

Coursera Top 10 Most Popular Courses (over past 12 months)

Rank	Course Title	Partner College or Organization
1	Machine Learning	Stanford U.
2	The Science of Well-Being	Yale U.
3	Learning How to Learn	UC San Diego
4	Neural Networks and Deep Learning	Deeplearning.ai
5	Programming for Everybody (Getting Started With Python)	U. of Michigan
6	Algorithms, Part I	Princeton U.
7	Bitcoin and Cryptocurrency Technologies	Princeton U.
8	Convolutional Neural Networks	Deeplearning.ai
9	Sequence Models	Deeplearning.ai
10	Improving Deep Neural Networks	Deeplearning.ai

edX Top 10 Most Popular Courses (all time)

Rank	Course Title	Partner College or Organization
1	Introduction to Computer Science and Programming Using Python	MIT
2	Introduction to Linux	Linux Foundation
3	CS50's Introduction to Computer Science	Harvard U.
4	Analyzing and Visualizing Data with Excel	Microsoft
5	IELTS Academic Test Preparation	U. of Queensland
6	English Grammar and Style	U. of Queensland
7	The Science of Happiness	UC Berkeley
8	TOEFL® Test Preparation: The Insider's Guide	Educational Testing Service
9	The Science of Everyday Thinking	U. of Queensland
10	Introduction to Python for Data Science	Microsoft

Source: edX

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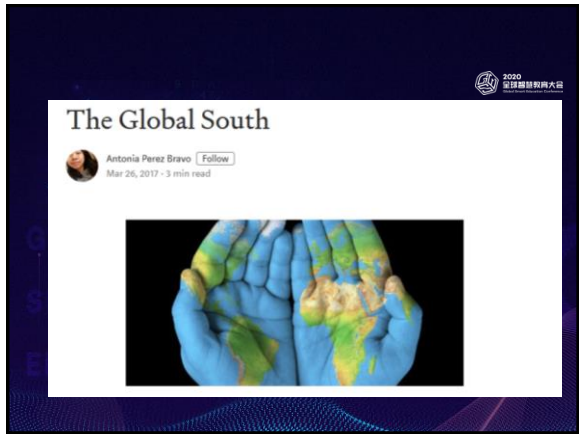

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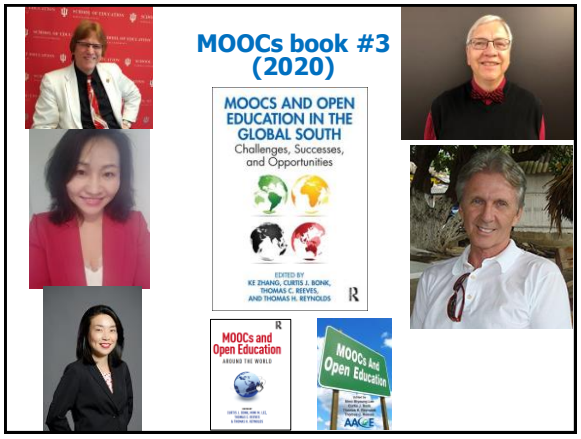

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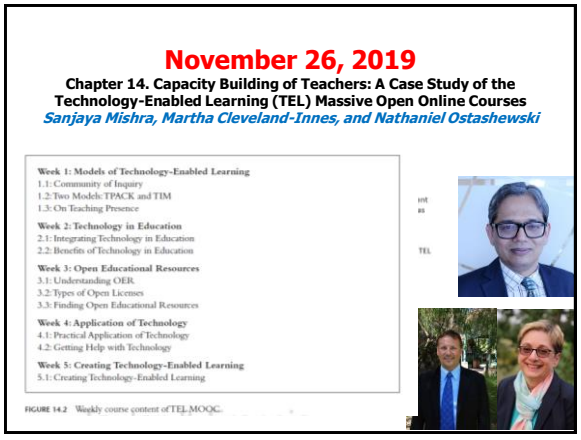

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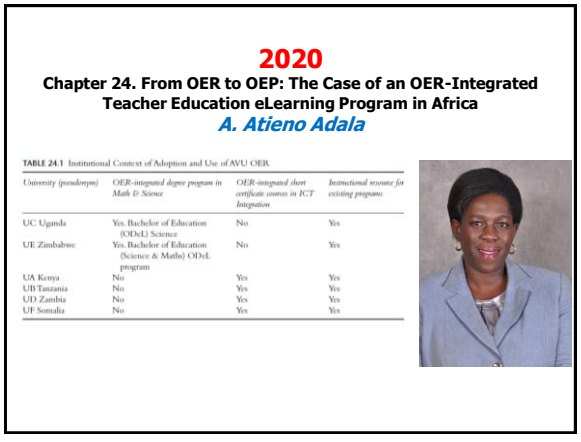

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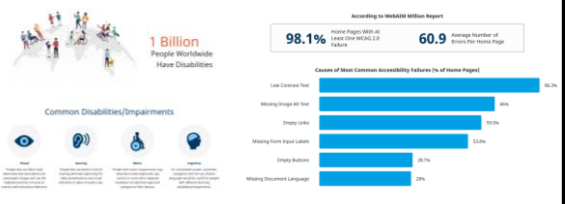
May 21, 2020

Global Accessibility Awareness Day!

https://globalaccessibilityawarenessday.org/



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What's the Future?

50

June 8, 2019

The second half of humanity is joining the internet: They will change it, and it will change them

The Economist

https://www.economist.com/leaders/2019/06/08/the-second-half-of-humanity-is-joining-the-internet

The second half of humanity is joining the internet

They will change it, and it will change them

51

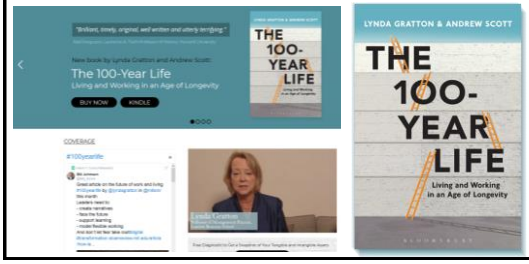
July 24, 2018

The 100-Year Life: Living and Working in an Age of Longevity

Lynda Gratton and Andrew Scott

http://www.100yearlife.com/

https://www.amazon.com/100-Year-Life-Living-Working-Longevity/dp/1543624634



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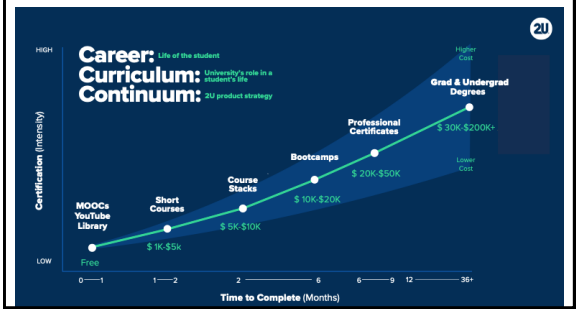
March 13, 2019

The Career Curriculum Continuum

Andrew Hermalyn, Inside Higher Ed

https://www.insidehighered.com/digital-learning/views/2019/02/12/how-universities-can-stay-center-learners-lives-opinion



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Professional Certificates

October 3, 2019

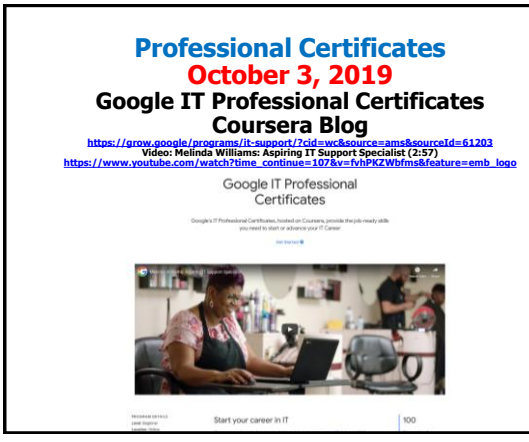
Google IT Professional Certificates

Coursera Blog

https://grow.google/programs/it-support/?cid=wc&source=ams&sourceId=61203

Video: Melinda Williams: Aspiring IT Support Specialist (2:57)

https://www.youtube.com/watch?time_continue=107&v=fvhPKZWbfms&feature=emb_logo



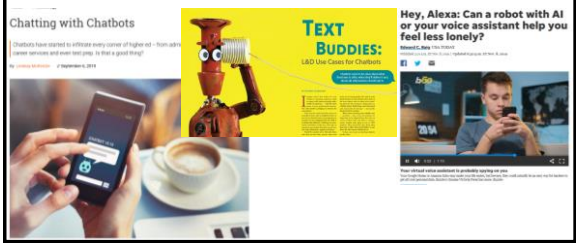
54

August 9, 2017
Learning is More Free and Open
Modern State Education Alliance
https://modernstates.org/

New Venture Will Offer Free Courses That Students Can Take for College Credit

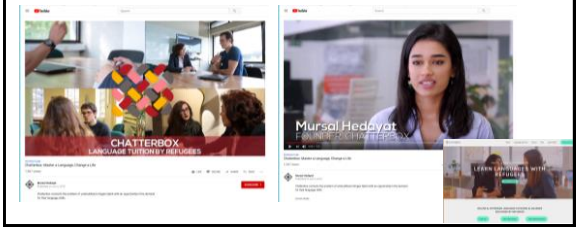
55

May/June 2020
Chatting with Chatbots and Text Buddies
Lindsey McKenzie, Inside Higher Ed
https://www.insidehighered.com/news/2019/09/06/expansion-chatbots-higher-ed
https://www.usatoday.com/story/tech/2019/11/08/alexa-google-assistant-ai-robots-become-substitute-friends/4057885002/



56

June 5, 2018
Chatterbox: Master a Language, Change a Life
The overall winner in the competition was Chatterbox, an online language school powered by refugees
https://wearechatterbox.org/
Mursal Hedayat, London
https://www.youtube.com/watch?v=3K3VexuIpe0

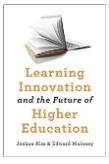


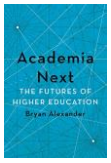
57

September 26, 2018
Interactive Agents and Tutors
Pushing the Boundaries of Learning With AI
Lindsay McKenzie, Inside Higher Ed
https://www.insidehighered.com/digital-learning/article/2018/09/26/academics-push-expand-use-ai-higher-ed-teaching-and-learning
https://www.ibm.com/blogs/research/2018/08/mandarin-language-ai/
https://www.youtube.com/watch?time_continue=4&v=7EuSTu1iR2A
1:17: http://curtbonk.com/mandarin.html

58

June 10, 2020
Learning in 2050
Edward J. Mahoney and Joshua Kim, Inside Higher Ed
https://www.insidehighered.com/digital-learning/blogs/learning-innovation/learning-2050





Per Kim and Mahoney: "Where might we be in 2050? As we said, a lot can happen. We might see changes in how we use technology, and how students use technology engage in both curricular and co-curricular activities."

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We are entering a jumping off point…

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2020
THANKS
Any Questions or Comments?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Email: cjbonk@indiana.edu
ADDING SOME TEC-VARIETY
Curtis J. Bonk | Ke Zhang
Empowering Online Learning
100+ Activities for Reading, Reflecting, Displaying, & Doing
August 21, 2020
MOOCs and Open Education
AROUND THE WORLD
MOOCS AND OPEN EDUCATION IN THE GLOBAL SOUTH
Challenges, Successes, and Opportunities

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