Town Hall 1 of 4 Tuesday, Jan 30th Noon-1pm
Facilitators: Kim Scalzo, Lisa Stephens, Chris Price, Rachael Hagerman, Thom Slomka, Steve Sturman, Rose Tirotta-Esposito, Alexandra Pickett

<mark>**AI & OER Group Notes**</mark>

Nikolaus Wasmoen - UB
- OER - **digital scholarly editing, publishing - training modules - how to process text for different kinds of output - visualization, modules can be adapted to different kinds of classes**.
- Can this be centrally hosted? SW available to students anywhere… H2 find the infrastructure? (refer to Tony? - Lumen OHM for quantitative course dev., Toros from OLI for content creation, or Pressbooks in SUNY Create for e-book creation)
- Need an additional module for AI and ML to annotate text automatically using natural language processing -
- Pilot with [Marianne Moore and her Circle](#) - at UB - Digital Archive **Need to ID OER builders and adapters**
- [TEI publisher](#) ("instant publishing toolbox")

Wenhai Lei - Farmingdale
- **Using smart phones to support an innovative and cost-effective Robot Vision System** - which will lower the cost of entry for classes and labs for students pursuing robotics.
- Has a background in AI and commercial applications for computer vision and AI.
- Smartphones capture images or videos, which will then be processed through artificial intelligence. This AI will act as a vision system add-on for the robots in our Robotics Lab. Through this integration, the robots gain enhanced intelligence and responsiveness, guided by the visual data they receive. **I am experienced in smart app development** when I worked in industry. It will be nature to develop an all-in-one app to create good user interfaces and streamline all the processes together.
- **Looking for collaborators at other SUNY campuses**.

Jenny Zhang - SBU
- Student learning - instructional design aspect
- A tool that would help faculty to review their course - OSCQR and QM would be used to train.
- **Create a virtual student to go through courses**
- Get feedback - self check
- **Spoke to SCCC - they will help build the OER/AI piece but could use more help!**

Alizera Dalili - Farmingdale
Aug Reality models - that students can access off campus - looking for AI collaborators. **Need the AI and modeling part as a collaborator**
- AR models that students can access off campus and physical models that students can access on campus - to be a "lab"
- Showcase concepts
- Fluid mechanics, etc.
- AI - if you have AR or VR models, can have information bubbles
- **Need the AI and modeling part as a collaborator.**
__Discussion__

- Has anyone used SW to create Learning Modules to upload to OER? Camtasia, Articulate, etc. Nik - TEI Publisher Text encoding initiative - Used for [Digital Thoreau](#) (Paul Schacht)
- Daniel shared: https://libretexts.org/
- Articulate Rise is easy to use, but expensive. Can be embedded in LMS through SCORM
- Dan - 2 platforms - Lumen Learning - don't have a full-fledged interactive system...(Lumen One?) Libretext, funded by US DoE - trying to create an interactive platform...
- Jenny - SBU - also interesting collaborating with Suffolk CC.
- Anurag Purwar (SBU) Willing to chat with others – past grant experience.
- Timothy – have 25 data points – want to help HR depts to evaluate criminal records – **need to develop a scoring algorithm to augment the Restorative Record idea.**
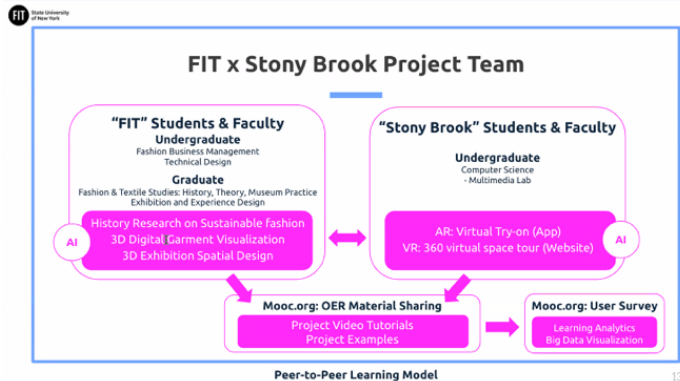
==**AI & OER Group Notes**==

Jeffrey Birt - similar to Bilas. Mech Engineering - working with Lumen – lumen OHM – (online homework manager). Lumen allows to add questions, develop complex problems, scaffold solutions, etc. Code for problems run 50-100 lines. Almost no help whatsoever (need to use MyOpenMath based on PHP). Can integrate with Brightspace. Using ChatGPT to help to generate code with brand new questions. Would like AI to help generate code. Need to create models, images as well - would like to use AI for this as well. Simple image generation is not coming out as expected.

Adam Rich - SUNY Brockport. Physiology and Anatomy. Many students. **Textbooks over $200**. Would like to use **open access materials** that would offer a lower price to students and **share this with other campuses**. AND use AI to help students understand when they have learned something. Students typically don't know when they are ready for a test. They recognize short phrases, but do not know enough to be successful in future courses. **AI would conversate with them to discuss what is important, what they should be retaining, what they should be curious about**. Would like to work with others to develop across multiple campuses.

Lori Scarlatos - SBU - working with a team - put together a workshop for STEM instructors, getting them to be more inclusive. As part of this, **developed a collaborative online game. Next phase: make it available SUNY-wide and create more resources for instructors**. Use AI and add to OER. SUNY - what do you want in the OER and what kinds of AI are you interested in?

Bilas Paul (Asst Prof of Physics at Farmingdale) - develop **homework engine**. Now need to use traditional HW (cheating is an issue; takes a lot of time to grade) or commercial HW (expensive for students). **Develop in Brightspace so students can access freely**; similar to commercial HW engine. **Randomize so different students would get "same" questions, different numbers**. Utilize AI to generate problems. Use OER and AI.

Jennifer Lee (FIT) and Catherine Geib (FIT) and Tony Scarlatos (SBU) - How to incorporate AR and VR in student teaching and learning; share student made videos; peer to peer; SBU's multimedia lab will can create – collab FIT & SBU faculty and students; multiple AI software; AR virtual "try on" lab; will be in VR space. (continued next page)

FIT x Stony Brook Project Team

"FIT" Students & Faculty
Undergraduate
Fashion Business Management
Technical Design
Graduate
Fashion & Textile Studies: History, Theory, Museum Practice
Exhibition and Experience Design

History Research on Sustainable fashion
3D Digital Garment Visualization
3D Exhibition Spatial Design

"Stony Brook" Students & Faculty
Undergraduate
Computer Science
- Multimedia Lab

AR: Virtual Try-on (App)
VR: 360 virtual space tour (Website)

Mooc.org: OER Material Sharing
Project Video Tutorials
Project Examples

Mooc.org: User Survey
Learning Analytics
Big Data Visualization

Peer-to-Peer Learning Model

Tony - works with cultural spaces - interacting with artifacts in AR, etc. 2 honors thesis students are currently working on this. **Deliverables - literature and survey**. Build a **prototype and field test** it. Using GAI tools to model artifacts and create avatars. GNU or CC. Code is on Github. Give tools to people who are organizing exhibits, trying to create a more immersive experience, engage remote participants. *Suggestion* - talk to cyber science at Cornell (from Jeffrey Birt - his daughter is in the program and would love this).

Matthew - Cornell - critical justice and employment. Restorative Record - provides alternatives to background checks. OER - working with e-Cornell and would like to work with others to offer prof dev to those that were incorporated. AI potential - increase education to incarcerated. Bringing microcredential opportunities to those that were or are incarcerated. 35 data fields - looking to analyze - working on but not part of current project.

Jie Zhang - SUNY Brockport - Sp Ed and another faculty in Comp Sci - developing software similar to what Adam Rich was describing. **Using speech to generate conversations to support student learning**. If this is good enough to be implemented, would try to collaborate with K-12 schools. Local school districts are interested in partnering with them. Also, **partnering with an international university (France and Ukraine)** and they use OER. Would like to use this in the international collaboration as well. **Initial phase: get more collaborators.**

SUNY has contract with Lumen - currently free for SUNY folks, but is a commercial enterprise

<mark>**AI & OER Group Notes**</mark>

Wenhai Li - Asst. Prof - Farmingdale - MAE Tech. Robotics Instructor - Big demand to learn more about AI - lack some equipment, **need to bring in image processing, facial recognition**, want to use open source code… chat GPT, what about **using/developing use of smart phone technology to support visualization - image processing - make the robots smarter**. Can decrease cost of AI concept introduction to MAE and Robotics. Would like to connect with others teaching similar classes.

Amie Gamble - Brockport A&P labs - worked with Dr. Rich, in exploratory phase - how to incorporate AI-OER into A&P - clinical, case studies, how to apply concepts - something more than memorizing body structures.

Jie Zhang - Dr. Li's proposal is interesting. **Could do something interdisciplinary for students to create an AI tutorial** - Adam Rich, Amie and Ji - . How to help students enhance learning with the tools. AI

tutor? Tool? What about a box that students could "speak" into, and AI can generate further prompt questions… to engage students. Started this idea last semester - Piloting stage. ITIG can help find more collaborators and improve the pilot. Start with HeD, then push to K-12, help student teachers teach the AI concepts…

Yu Zhang with Keith Bessler - Chemistry – How to use OER text from Open Stax - good opportunity for them, **Can we incorporate the AI ideas into lab instruction**… similar to the Anatomy and Physiology concept. Is it possible to personalize the experience for the students in a lab? Similar activities, but with different parameters.

Their "Transferable Skills Modules: Leveraging OER and AI for Enhanced Chemistry Education" project aims to design a series of modules focused on transferrable skills such as critical thinking, problem-solving, and communication, integrated into existing chemistry courses. The modules will cover key areas in chemistry education, including "Chemistry Concepts and Critical Thinking", "Effective Communication in Chemistry", "Chemistry in the Real World", "Lab Safety and Procedures", and "Research Methods in Chemistry". Each module will be designed with interactive elements, such as quizzes, discussion boards, and multimedia content. We will create these modules as Open Educational Resources (OER), allowing them to be freely accessed, **used and adapted by educators and students not just at our institution, but globally.**

Keith - want to design modules - learning modules to incorporate AI to personalize the learning experience of the students. Last town hall - Jenny Zhang from SBU is working on something that also interests me, leveraging AI for course design - the QM rubric could be used. Dan Resch, also a chemist - contacted her afterward to explore collaboration (Dan Resch is a programmer)

Chris posted: are interested in this. https://www.insidehighered.com/opinion/views/2024/02/07/wisdom-skills-are-hard-teach-ai-games-can-help-opinion The QM rubric might be able to incorporated into an AI network - to assist…. SUNY has the OSCQR Rubric - maybe use that?

How to stick with the original project - building modules - building within OER - use in D2L. Dan can move the idea into programming… What problem are you trying to solve? Two teams can work together…. 1) help students learn through AI – personalized, 2) help faculty design courses leveraging AI? Can we incorporate AI into a D2L page? Pointers to the instructor….

Nik UB - looks at textual studies - **scholarly editing - looking at ML and AI and how it can help curate content/modular OER to conduct digital scholarly editing** - very detailed, specialized editing… traditionally this has been done by hand. How might we "teach" the AI… and have students "try it out" while "teaching" the AI at the same time? Can draw on larger data sets… IT Trust?
Here is the AI syllabus/course design website: http://sentientsyllabus.org/

OCR and recognition labs can work with manuscripts, but now we can do more with text. New annotation tools, harvest metadata… could get connected to PBL, experiential, could also share across multiple campuses. Can adapt and build out modules developed here. Want to get the infrastructure in place, in an adaptive environment. **Hope it will scale up to a larger grant/solution**. Working with a couple partners, waiting to see who can contribute what. Might need testers, or a mini module.

Bob Dobmeir - Brockport - Counseling edu. dept. Want to take a mental health series and adapt to a **telemental health model**. Students are asking for anonymous distance counseling. Needs to be HIPPA compliant. Have talked with the criminal justice folks at Cornell. (Restorative record) - it's the security and HIPPA, confidentiality issues are met… it can be effective, can see facial expressions etc. Not as powerful as being in the same room… but very useful if we can get the platforms refined.