

Enhancing multimodal student engagement: Authentic learning across a global network

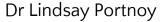




How do you implement authentic learning experiences in your courses?









Dr. Alex Fronduto



Dr. Liz Zulick

- Supporting learners through more authentic coursework and assessment
- Signature experiential learning practices
- Connecting with learners to support their growth and engaging learners to help them thrive

1 — Coursework

Scholar-Practitioner Model & Experiential Education

How have you been innovative in coursework design for more authentic student learning?



Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app





"Overall, I found the panel very **informative**, and I am **excited** to integrate these concepts and strategies **into my own work** as a supervisor."

"Another point made during the panel that **really spoke** to me..."

Industry Professionals: Inside and Outside of the Classroom

"I found this to be **even more beneficial** than I was anticipating, and I'm **really glad** I did it."





Case Study Integration

Bridge Cultures: Global Virtual Workshop Market Research

ATTECS LLC: Faculty Helpdesk Knowledge Base

Empowered to Educate: Curriculum Research & Development for Ghana Educational Fellowship

IDEA Games: Development of Educator's Guide for Literacy Arcade Game

IDEA Games: Diversity and Inclusion Audit of Literacy Arcade Game

AHEAD (Association on Higher Education and Disability): Guide to Enrolling in Higher Education Disability Services

Northeastern GSE/eLID: Creating and Designing Skill Building Lab Through a DEI Lens

Northeastern Office of Employer Engagement and Career Design/M.Ed HEA: Career Resources for Female Identifying Students

Entire Course Projects

Experiential Projects





SPONSOR BENEFITS

- Gain access to high-potential rising professionals in many different fields
- Deepen familiarity with talent pipeline through direct interaction with rising professionals
- Support your college recruiting and brand building efforts through exposure to hundreds of top students
- Provide new and rising managers with opportunities to mentor developing, high potential students

STUDENTS BENEFITS

- Experiment working with different sponsors on various types of academic projects with real-world applicability
- Develop skills to cite on your resumé and strengthen your job prospects
- Connect with top companies and build your network
- Receive feedback from sponsors on your performance to better understand and enhance your professional development

"Participation in this project gave me an opportunity to **apply the knowledge** I gained from other courses. For example, I conducted research and analysis to identify the needs of the organization using the Backwards Design. It also helped me **hone my communication skills** with stakeholders and learn more about what **collaboration** is in a more corporate environment."

Experiential Projects

"I think that I have grown **professionally** by learning how to **take initiative and execute** my own project, whereas I have formerly acted in more of a supporting role."

"I feel that I have been able to connect some of the previous coursework to the project, **particularly regarding DEI**, which has been a central component of what I am doing in the project."



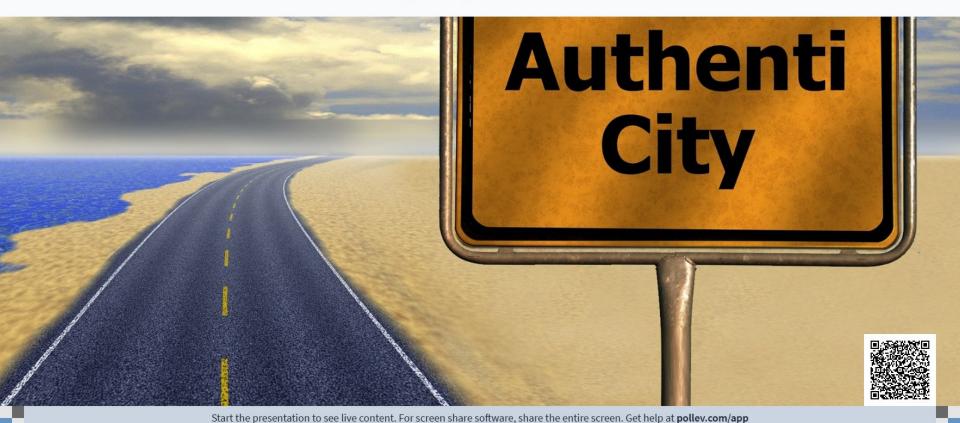
What is one example that you would like to learn more about or to apply in your courses next term?



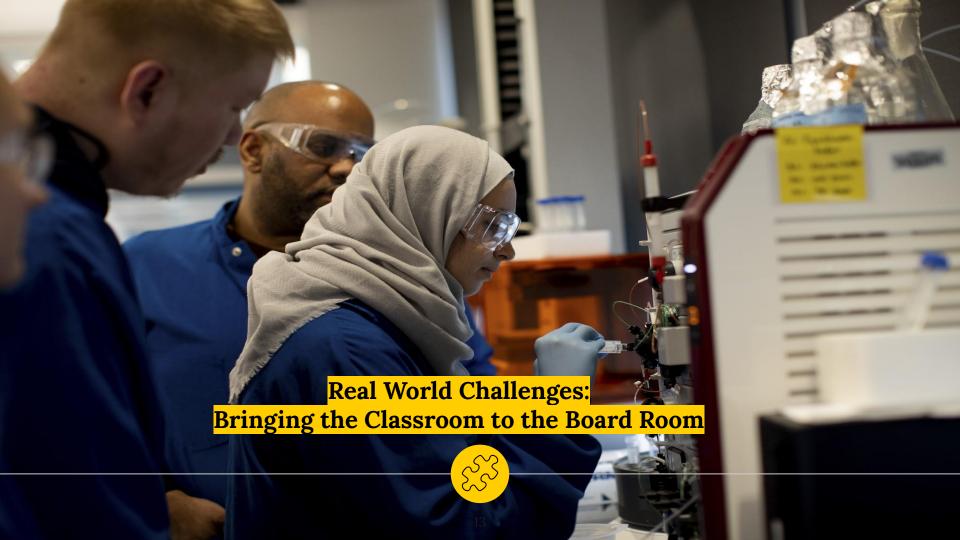
2 — Assessment

Engage students in multimodal ways, create more authentic assessments, and in general work to be more innovative and inclusive while collaborating across industries

What are some ways you measure authentic student learning in your courses?









BIG IDEA:

Cystic fibrosis is a genetic disease with multiple etiologies. Typically, patients with cystic fibrosis have a thick buildup of mucus in their lungs, which can clog their airways and lead to persistent lung infections, and eventually respiratory failure. Treatments can vary greatly from person to person depending on disease etiology, but many patients rely on drugs that affect the function of the cystic fibrosis transmembrane conductance regulator (CFTR). The CFTR protein is defective in patients with cystic fibrosis, and proper treatment can increase CFTR function and prevent symptoms associated with cystic fibrosis.

ESSENTIAL OUESTION:

Why are CFTR drugs prescribed to treat some patients with cystic fibrosis while other patients are treated only with airway clearance techniques?

THE CHALLENGE:

We need to answer the questions from patients with cystic fibrosis in a format that is easy to digest and understand. Many patients do not understand why they are prescribed different drugs than other patients with cystic fibrosis.

Ex. Handout, pamphlet, youtube video, script for healthcare provider, etc.

GUIDING OUESTIONS:

Here are the most common patient questions:

- 1. Why they have cystic fibrosis?
- 2. What is cystic fibrosis?
 - a. What is the cause?
 - b. What proteins are mutated?
- 3. Potential symptoms associated with their disease?
- 4. Treatment options.
 - a. Explain how the drugs work (mechanism of action)
 - b. Who is prescribed CFTR drugs and why?

GUIDING RESOURCE:

Accurso et al. (2010) Effect of VX-770 in Person with Cystic Fibrosis and the G551D-CFTR Mutation. NEIM:363:21.

- ttps://medlineplus.gov/cysticfibrosis.html
- https://ghr.nlm.nih.gov/condition/cystic-fibrosis
- https://www.nhlbi.nih.gov/health/health-topics/topics/cf/
- ttp://www.vertex.com



cilia





Grant Proposal Assignment (NIH Format)

Includes:

- Revisions
- Formal presentation
- Peer review
- Feedback from multiple stakeholders

Research Proposal Guidelines

Research Proposal: A 8-10 page research proposal/plan using APA citation guidelines. This proposal should clearly define research aims, significance, background and justification, innovation, approach, expected outcomes, potential problems and difficulties and alternative approaches. For this assignment, your literature review will serve as your "preliminary data". Be clear and concise in your writing. Use Times New Roman, Size 12 Font, double spaced.

For submission: One document should be submitted which clearly outlines all the below sections. The total proposal should be between 8-10 pages, Times New Roman, Size 12 font, double spaced.

Aims: Clearly define the goals of your research proposal. What are you research questions? Should consist of 2-3 succinct, clear goals of your proposed research project. (~1/2 page)

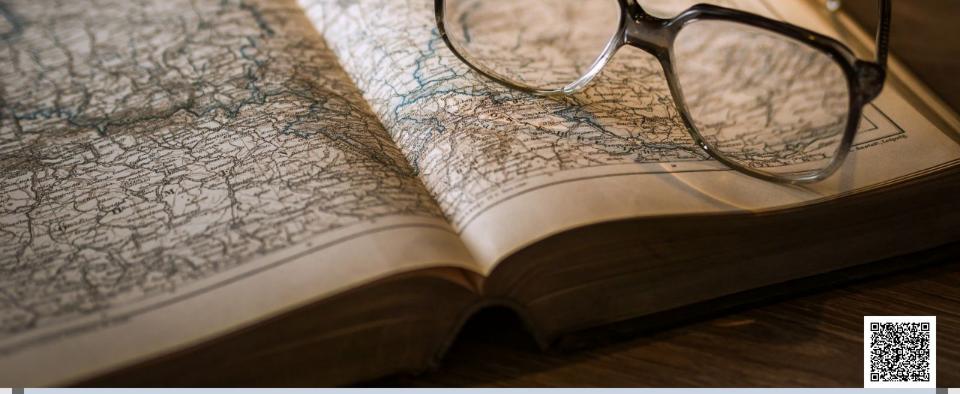
Significance: Why should this research be done? What would the impact be on the field? How are the aims supported based on the significance of this work? (~1 page)

Feedback from students on assessments:

- "I like how the structure was set up, in that one project built upon the next. I liked the link from the classroom to the challenges".
- "This course was helpful in learning the actual mechanisms of many biological processes in the cell, that I didn't really think about before. I got to apply my info."
- "I'm like how the challenge assignments fit in- they were interesting and fun. Better than another quiz."
- "The grant proposal was hard. But it forced me to really think. I also liked picking my topic, I learned a lot.
- "This was my first true research paper. Thanks for holding my hand through it!"



What is an approach for more authentically measuring student learning you'd like to try in your course next term?



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Meeting Students Where They Are

3

More meaningful faculty-student connection by addressing common barriers (prior experience, time zones, and diversity of needs)

...while respecting student + faculty time





Getting to know you

What is your preferred name (pronunciation)?

In what industry do you work?

What is your current role?

Who is your dissertation chair/advisor?

How many other courses are you taking?

For synchronous check-ins...

What is the best day of the week to connect?

When is the best time of day to connect?

What is one goal you have for this course?

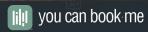
What specific supports have you received from other faculty that have been particularly successful for you?

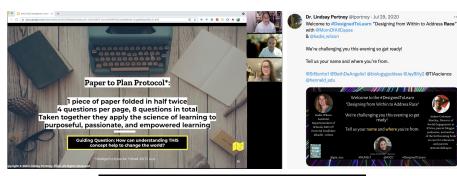
What is something you'd like for me to know about you before we begin learning together?

Equity from Day 1









Expanding Networks + Impact (People)

Sep 1, 20

One-minute elevator pitch

13 responses • 182 views • 10 comments

In one minute, present the argument you are making in your article. sharing a topic, a project, a claim for significance, or a variable but that your article will address. You only have one minute...use it well!



Sep 1, 2021

Three Potential Journals

12 responses • 176 views • 22 comments

Record a "brief" overview (90 seconds) stating the name of three (3) journals you're b. considering, one insight about scholarly journals in your field, and how this experience has changed your perspective on academic writing.



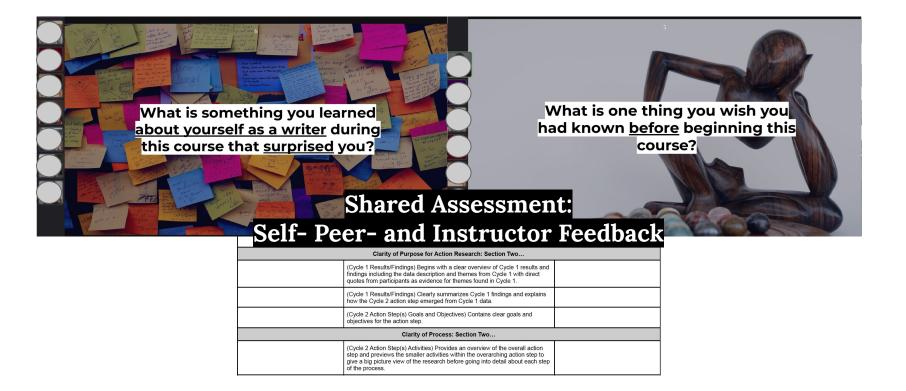
Multimodal, Learner-Driven Research + Innovation (Work)



Decolonizing Course Texts (Curriculum)

Inclusive + Empowered Design



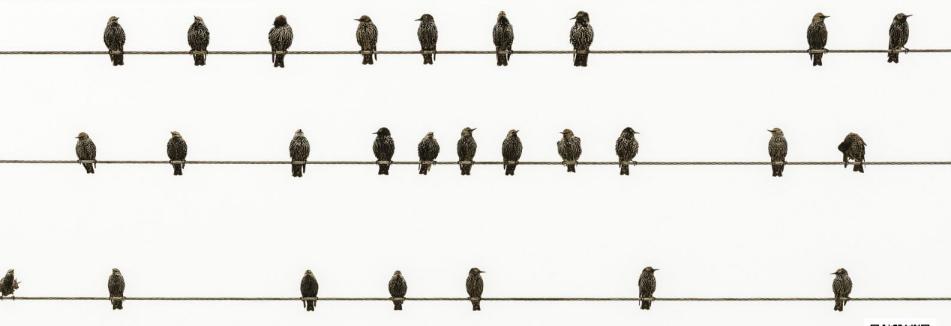


Reflective Practice for Autonomous Learning

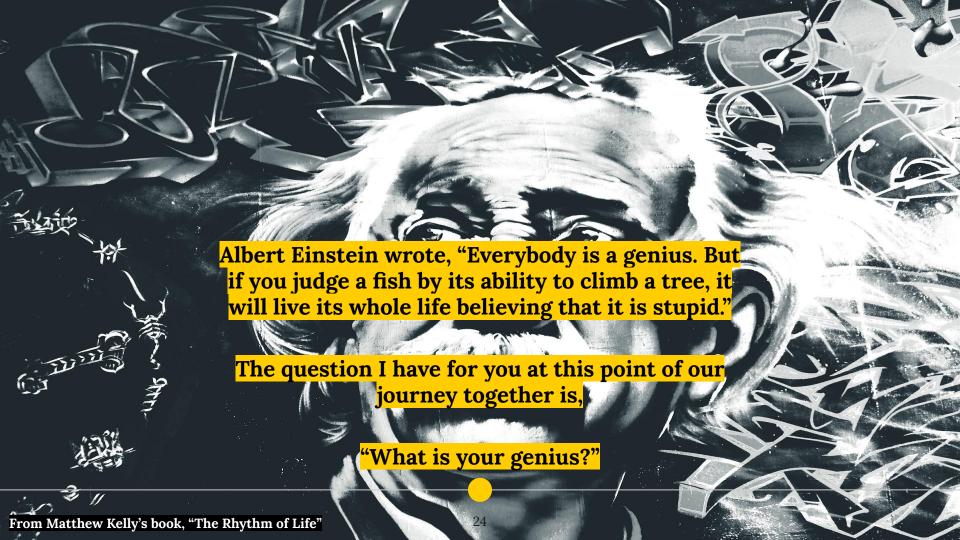




What is an approach for meeting students where they are that you would like to try in the coming term?











Thanks!



SCAN ME



Please reach out and share your success with us:

- A.Fronduto@northeastern.edu
- L.Portnoy@northeastern.edu
- E.Zulick@northeastern.edu