

FELLOW SPOTLIGHTS

The Engineering Unleashed Fellows are applying an entrepreneurial mindset to their teaching, research, and service. We celebrate each one and wish them a terrific year and take the opportunity to spotlight fellows throughout the year.

Please meet two of the 27 Engineering Unleashed Fellows on these pages. These Fellows have developed and published shareable resources using the Engineering Unleashed platform. Register on EngineeringUnleashed.com to access these resources as well as a library of 1,500+ content cards that have been published by the community.



Professor Andrea Kwaczala
Assistant Professor of Biomedical Engineering,
Western New England University

Dr. Kwaczala is an undergraduate educator at Western New England University. She teaches biomechanics, prosthetic and orthotic design and biomedical engineering capstone. Her research focuses on assistive technology devices to measure and evaluate human body motion and improve movement in people with limited mobility.

Interests, Topics Researched and Taught

Adaptive Design
Assistive Technology
Biomechanics
Product Development
Rehabilitation Engineering

Medical Device Innovation
User Centered Design



Memberships

ASEE
ASQ
RESNA
SWE



Disciplines

Biomedical Engineering
Engineering Education
Entrepreneurship
Health Sciences & Medical



Completed Degrees

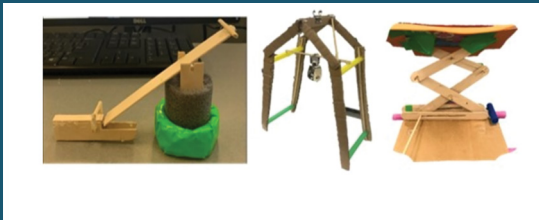
PhD, Stony Brook University,
Biomedical Engineering
Masters, Stony Brook University,
Biomedical Engineering
Bachelor of Science, Rensselaer
Polytechnic Institute, Biomedical
Engineering

FEATURED CARD:

Making with Purpose: Assistive Technology Makerspace Activities

This series of cards offers several different hands-on activities to promote technical skill development in the engineering classroom. The central theme of these activities centers around creation of assistive technology to aid people living with disabilities. However, many of the activities can be easily adapted to meet any engineering discipline looking for hands-on workshops for technical skill development.

Workshop: Making With Purpose (August 2020)



Learn more about Andrea and her work by scanning this QR code:



Professor Patrick Gurian
Professor, Department of Civil, Architectural, and
Environmental Engineering, Drexel University

Patrick currently serves as Director of First Year Experience for the College of Engineering. Through his scholarship in quantitative policy analysis and risk management, he seeks to understand challenges that couple engineering with human behavior. Patrick finds engineering education to be among the most exciting and impactful of these challenges.

Interests, Topics Researched and Taught

Engineering Economics
Risk Assessment
Statistics



Disciplines

Environmental Engineering



Completed Degrees

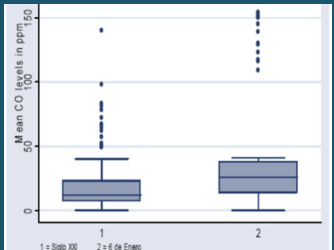
Ph.D., Carnegie Mellon, Engineering
and Public Policy & Civil and Env
Eng

FEATURED CARD:

Bring Your Own Data: Supporting the Development of Student Curiosity for Statistics

Statistics is sometimes perceived as dry or only tangentially related to engineering practice. In this card students are first exposed to a literal life or death situation, the hazard posed by carbon monoxide intoxication. As part of a class discussion, students are guided in identifying how statistics can inform engineering practice in addressing this risk.

Workshop: EML Through Student Research (July 2020)



Learn more about Patrick and his work by scanning this QR code:



2022 KEEN NATIONAL CONFERENCE

FEB. 2-4, VIRTUAL

TRANSFORM ENGINEERING EDUCATION WITH ENTREPRENEURIAL MINDSET AT #KNC2022!

This February, join hundreds of leaders, faculty, and staff from top universities at the 2022 KEEN National Conference. This virtual conference features inspiring presenters and keynotes, rich networking opportunities, and interactive sessions - all focused on transforming engineering education with entrepreneurial mindset (EM).

#KNC2022 features 30+ interactive workshops designed to immediately impact your work on campus and give you takeaways that you can use within your classes. Tracks are designed for both the beginner and advanced - giving options for first-time attendees and those who have attended this event for years.

[Learn More & Register at Whova.com/web/keenn_202202](https://Whova.com/web/keenn_202202)