

**IITG Project Outcomes Form - Report Outcomes :
Entry # 886****Name of person reporting outcomes**

Lori Sprague

Emaillsprague@binghamton.edu**IITG Project Title**

2019-Binghamton (BU)-Sprague-VR Emotional Intelligence

In 1-3 sentences, how would you describe how your project helps advance the SUNY mission?

The Development of an immersive virtual reality scenario strengthens education and research for healthcare. The technology allows for multiple users to experience the same scenario providing standardization while enhancing healthcare education. This project was able to provide an educational opportunity that extended beyond the host campus and included pre-licensure and post-licensure nursing students. The technology and project idea could easily be expanded to other healthcare specialities.

We borrowed the 360 camera used to record the scenarios. Patrick Leiby, technology specialist, educated himself on potential capabilities, uses, and platforms that this type of technology allows. This was possible due to the Decker School of Nursing's in-kind service allowance. The camera is still available for use by the lender so the Innovative Simulation and Practice Center (ISPC) will be able to enhance further simulations by utilizing this technology. Several faculty members provided in-kind services beyond those budgeted in the original IITG by allocating additional planning hours, designing and conducting research. Further in-kind services were provided by faculty, preparing the video and providing expert review of content. The estimated in-kind services totaled approximately \$7500.00, as services rendered beyond budgeted allotment.

1st Choice:

Instructional Technologies

Instructional Technologies

- Immersive Environment (Virtual Reality)

2nd Choice:

Instructional Design

Instructional Design

- Interaction
- Supplemental Instruction

3rd Choice:

Connected Learning Models

Connected Learning Models

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- Virtual Learning Communities

What recommendations would you make to scale-up or share your project more broadly (within an educational sector, or perhaps SUNY-wide)?

In order to scale up the project, we could include both undergraduate and graduate students, as well as incorporating students from other disciplines such as pharmacy and social work. While part of our project included incorporating students from other institutions, we could expand those institutions to include additional schools of nursing both within the SUNY system and private institutions.

Undergraduate and Graduate Healthcare Faculty
Healthcare Simulation Centers
Pharmacy
Community Partners: Educational Institutions and Healthcare Organizations
Health Department

Unsure at this time

Do you wish your current abstract to be used?

No

If you wish to re-word the abstract to reflect updates or outcomes, you may do so in this text box (please keep it brief – less than 150 words - you can expand on this in your files and links)

As there is a continued need to improve healthcare outcomes and enhance patient experiences, healthcare educators need to consider using alternative pedagogies when teaching future healthcare providers to improve understanding of patient perspectives. Simulation has been at the forefront of this call. E-simulation is an emerging technology and includes virtual reality and computer based experiences for training. The overall purpose of this project was to develop patient centered scenarios and test the feasibility of creating the immersive virtual reality educational content and increase the learner's emotional intelligence, empathy, and self-efficacy. As a result of developing a cost effective simulation experience for use with smartphones and inexpensive VR headsets, online participants reported a rich, standardized experience.

File One Upload and Brief Description

Details to reproduce the project

File One

- [Duplication-of-the-Project.pdf](#)

File Two Upload and Brief Description

CTI Presentation:

The Development of Immersive Virtual Reality Scenario for Increasing Emotional Intelligence, Empathy, and Self-efficacy in Healthcare Education

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File Two

- [IITG-Presentation-CTI.pptx](#)

Project Website Address (Hyperlink 1)

<https://www.youtube.com/watch?v=G61sA0MPFN4&feature=youtu.be>

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