



# Symposium on Educational Excellence 2024

## Teaching Your Students About and with AI

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### Keywords

Students; Faculty; ChatGPT; Biomedical informatics; Informatics; Artificial Intelligence; Health Occupations; Professional Practice

### Abstract

Artificial intelligence (AI) is profoundly impacting both the practice of health professionals as well as how such professionals are educated. All 21st century health professionals must be competent in the understanding, application, and evaluation of AI in their practice disciplines as well as their educational activities.

### Goals

The goal of this workshop is to help (a) health professions educators understand the state of the art of AI applied in their health-related discipline and (b) to develop a plan for using AI in their pedagogy.

### Methods

The methods of the workshop will include a brief high-level overview of AI by the three faculty, after which workshop participants will break into smaller interactive groups to develop plans for teaching about AI and/or using it in their pedagogy. After the small group sessions, participants will reconvene to the larger group to share their plans and get feedback.

### Impact

The impact of the workshop will be assessed by the ability of participants to develop their own plan for teaching about AI and/or using its methods in their pedagogy.

### DEI

A diversity, equity and inclusion focus will be infused throughout the workshop in highlighting issues of equity and bias, and resulting plans include efforts to engage a broad range of students and health professionals.

## Learning objectives

- Describe the potential benefits and challenges for the use of AI by health professionals
- Discuss how AI can be used both in professional practice and teaching by faculty member
- Develop a plan to teach about AI from the standpoint of each participant's health profession and/or to use AI tools in their teaching

The three faculty will give short overviews in three respective areas and lead the discussion in their small groups to help participating learn and develop plans for their use of AI. The faculty expertise includes:

- William Hersh – developing policy and using generative AI (e.g., ChatGPT) in assignments
- Steven Bedrick – building skills in prompting generative AI
- Steven Chamberlin – building predictive models, including the use of no-code programming tools

### Plan to actively engage audience:

The schedule for the 90-minute workshop includes:

- 30 minutes – overviews by three faculty on AI-related topics and their current use in teaching
- 45 minutes – small group discussion around the three topics to help participating faculty develop plans for their own teaching about AI in their discipline and use of AI in their teaching
- 15 minutes – full group discussion to share plans from small group discussions with entire group

## Learning Objectives

1. Appreciate the duration and rigor of training required for surgical careers.
2. Increase awareness of current inequalities in gender representation in surgical subspecialties.
3. Early intervention through structured curriculum teaching surgical basics is effective in increasing confidence, competence, and community for first- and second-year medical students.
4. Understand the components of the surgical “hidden curriculum” and how knowledge within this curriculum is typically taught.