



Professional Enrichment Course

University of Pittsburgh School of Medicine

Office of Medical Education

PEC Registrar – Denise Downs d downs@pitt.edu 412-648-8749

Course Name: Artificial Intelligence in Medicine

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enrollment Period: | Spring 2023 |
| Course Dates: | Fridays 1pm-3pm: January 13 th , January 20 th , January 27 th February 3 rd , February 10 th , February 17 th |
| Student Max: | 30 |
| Class Year: | MS1 and MS2 |
| Course Director: | Zaid Siddiqui, M.D. and Shandong Wu, Ph.D. |
| Course Administrator: | David Lembersky (Lembersky.David@medstudent.pitt.edu) Lucy Cheng (cheng.lucille@medstudent.pitt.edu) |
| Location: | Remote lectures with in-person workshops |
| Registration: | Via Amp Up during PEC enrollment period |
| Course Description: | The aim of Artificial Intelligence in Medicine is to provide a physician specific introduction to artificial intelligence (AI) and machine learning (ML) as well as to provide examples in healthcare where AI/ML will have expanded clinical use. Students will be provided an overview of data science, clinical informatics, and AI/ML concepts to serve as a knowledge base for collaborating with scientists and integrating AI into clinical practice. Applications to healthcare such as predictive analytics, automated imaging interpretation, and natural language processing be provided, as will real-world examples of AI/ML in specific fields of medicine. |
| Objectives: | <ol style="list-style-type: none">1. To understand the basic concepts of data science, clinical informatic, AI and ML and their role in medicine2. To be able to critically review the use of AI in medical research3. Collaboratively build a basic AI based model relevant to medicine with a group |
| Pre-Requisites: | None |
| Requirements: | Attend all sessions |
| Texts: | None |