LOYOLA UNIVERSITY CHICAGO | PARKINSON SCHOOL of HEALTH SCIENCES AND PUBLIC HEALTH

Department of Health Informatics and Data Science and Center for Health Outcome and Informatics Research

HEALTH INFORMATICS SEMINAR SERIES

Presents:

"The cNIE: Natural Language Processing for Inference and Clinical Decision"

Abstract: *The cNIE is designed to evaluate user-defined clinical inference rules in a real-time manner. Clinical Inference Rules (CIRs) can be computable phenotypes, classifiers, predictive models, etc. CIRs are versatile and can be used in a wide range of situations. The cNIE is unique in that it is a general-purpose engine with native cNLP capabilities with extremely low transaction latency. This capability enables what we now term as "transactional NLP" or "transaction clinical NLP".*

Panelists: **Ron Price; Jason Boyda; Kathleen Bobay, PhD, RN**

When: **Wednesday, October 20, 2021 11:00 am – 12:00 pm**

Join via Zoom Link: https://luc.zoom.us/j/81561708495

Ron Price is Associate Vice President, Informatics and Clinical Research, Loyola University Chicago, Information Technology Services (ITS). Mr. Price's responsibilities include direction of technology teams that identify, implement and support computing initiatives that advance the institutions' strategic goals. Under his leadership, Informatics and Clinical Research has developed a range of educational applications, clinical research data repositories, award-winning web sites and advanced computing infrastructure. A significant focus of his current activities is the creation of high performance computing clusters and technologies supporting large-scale clinical analytics including clinical natural language processing and image analysis. Mr. Price joined the SSOM in 1987 and has held a variety of IT positions. Mr. Price is a Red Hat Certified Engineer (RHCE). Mr. Price holds a Bachelor's degree from the University of North Carolina at Chapel Hill.

Jason Boyda is a programmer analyst responsible for developing and maintaining clinical research applications and software. HIs work primarily focuses on supporting large-scale, high performance clinical natural language processing systems through his expertise in the Golang programming language, and mobile application development that aims to improve clinical research. Mr. Boyda obtained his Bachelor's degree in Computer Science from the University of Iowa and joined Loyola in 2018, where he has co-authored a handful of publications in health sciences, and is currently working towards his Master's in Health Informatics.

Kathleen Bobay, PhD, RN, NEA-BC, FAAN, is a Professor, Associate Dean for Faculty Affairs, Interim Department Chair, Health Informatics & Data Science, Parkinson School of Health Sciences & Public Health, Professor, Marcella Niehoff School of Nursing. Dr. Bobay's research focuses on measuring the value of nurses in patient outcomes. Her research team has demonstrated how staff nurses can help reduce readmissions and Emergency Department visits in medical-surgical patients after discharge by using standardized nursing and patient readiness for discharge assessments. Dr. Bobay's current research involves the use of natural language processing to better identify social determinants of health and phenotyping for clinical decision support. Dr. Bobay has a PhD in Nursing Administration and Health Systems from the University of Michigan, and a MSN as a Family Nurse Practitioner from Michigan State University.

Approval: This educational activity conforms to the guidelines required for an educational program to receive CME Category 1 credit. Your activity was approved for 1 category 1 credits towards the AMA Physician's Recognition Award.

* Visit ***here*** to watch previous presentations and to find more information about future Seminars.

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