

**SEE THE RESEARCH
MEET THE STUDENTS
JUDGE THE POSTERS
STAY FOR DINNER**

**DATA SCIENCE REU POSTER SYMPOSIUM
JULY 29, 2021
HIGGINS HOUSE 3:00 PM – 5:00 PM**

**A MACHINE LEARNING FRAMEWORK FOR
PREDICTING LONG-TERM BEHAVIORAL OUTCOMES
IN CHILDHOOD CANCER SURVIVORS**

Anneliese Markus - Cornell University
Kristi Prifti – Worcester Polytechnic Institute
Amos Roche - Worcester Polytechnic Institute

Advisor: Prof. Chun-Kit Ngan



**ALTERNATIVE WAYS
TO SOLVE NON-LINEAR
INTEGER OPTIMIZATION
PROBLEMS**

Katie Salvaggio – Worcester Polytechnic Institute

Advisor: Prof. Andrew Trapp

Graduate Mentor: Shima Aziz and Ryan Killea



**CLASSIFICATION OF COVID-19 VACCINE
SENTIMENT THROUGH TWITTER**

William Burke - Worcester Polytechnic Institute
Devin Coughlin - Worcester Polytechnic Institute
Philip Rago - Worcester Polytechnic Institute
Eren Eroglu - Worcester Polytechnic Institute

Advisor: Prof. Kyumin Lee

Graduate Mentors: Yichuan Li,
Guanyi Mou, and Di You



**COILS: IMPROVING
CLASSROOM CLIMATE
THROUGH DESIGN AND
EVALUATION**



Samantha Bazile - Northeastern University
Rim Elalami - Northeastern University
Caroline Useda - Amherst College

Advisor: Prof. Lane Harrison



**HUMAN CONTEXT
RECOGNITION:
A CONTROLLABLE GAN
APPROACH**

Joshua DeOliveira – Worcester Polytechnic Institute
Harrison Kim – Northeastern University
MaryClare Martin – College of the Holy Cross

Advisor: Prof. Elke Rundensteiner

Graduate Mentor: Walter Gerych

**MODELING AND
IMPROVING
THE U.S. DEFENSIVE
ASYLUM SYSTEM**



Adam Ferrarotti – Worcester Polytechnic Institute

Advisors: Profs. Andrew Trapp and Renata Konrad

Graduate Mentor: Geri Dimas

**NEURAL ACTIVITY & VISUAL STIMULI:
HOW THE BRAIN SEES VIDEOS**

Hermes Bonilla – Florida State University
Herbie Wolf – Worcester Polytechnic Institute
Fatemeh Tuj Zohura – Northeastern University

Advisor: Prof. Ziming Zhang

Graduate Mentor: Yuping Shao



**RVOSR: RECURRENT VARIATIONAL
OPEN SET CLASSIFICATION**

N'yoma Diamond - Worcester Polytechnic Institute
Sean Jordan - University of Maryland, Baltimore
Amelia Norman - University of Virginia

Advisor: Prof. Elke Rundensteiner

Graduate Mentor: Luke Buquicchio



**SCREENING FOR DEPRESSION
WITH MACHINE LEARNING**

Nicholas Jurovich - Worcester Polytechnic Institute
Benjamin Litterer - Iowa State University
Mahum Shah - University of Rhode Island
Saitheeraj Thatigotla - University of Tennessee

Advisor: Prof. Elke Rundensteiner

Graduate Mentor: ML Tlachac

