

Thomas Hartvigsen

twhartvigsen@wpi.edu

[thartvigsen.github.io](https://github.com/thartvigsen)

RESEARCH INTERESTS: Multivariate time series classification, Recurrent Neural Networks, Deep Learning.

EDUCATION

Worcester Polytechnic Institute, Worcester, MA

Ph.D., Data Science

August 2016-Present

Advisors: Elke Rundensteiner, Xiangnan Kong

M.S., Data Science

Dec 2018

Advisors: Elke Rundensteiner, Xiangnan Kong

Thesis: *Adaptively-Halting Policy Network for Early Classification.*

SUNY Geneseo, Geneseo, NY

B.A., Applied Mathematics

August 2012-May 2016

BioMathematics minor

Advisors: Chris Leary, Kirk Anne

PUBLICATIONS

MANUSCRIPTS UNDER SINGLE-BLIND REVIEW

Predicting Hospital-Acquired Clostridium Difficile Infection Using Electronic Health Record Information.

Erin Teeple, Thomas Hartvigsen, Cansu Sen, Elke Rundensteiner.

PEER-REVIEWED CONFERENCE PROCEEDINGS

Adaptive-Halting Policy Network for Early Classification.

Thomas Hartvigsen, Cansu Sen, Xiangnan Kong, Elke Rundensteiner.

To appear at KDD 2019.

Comparing General and Locally-Learned Word Embeddings for Clinical Text Mining.

Jidapa Thadajarassiri, Cansu Sen, Thomas Hartvigsen, Xiangnan Kong, Elke Rundensteiner.

To appear at BHI 2019.

Detecting MRSA Infections by Fusing Structured and Unstructured Electronic Health Record Data.

Thomas Hartvigsen, Cansu Sen, Elke Rundensteiner.

To appear in Communications in Computer and Information Science.

Early Prediction of MRSA Infections using Electronic Health Records.

Thomas Hartvigsen, Cansu Sen, Sarah Brownell, Erin Teeple, Xiangnan Kong, Elke Rundensteiner.

HEALTHINF 2018. Nominated for Best Student Paper.

CREST - Risk Prediction for Clostridium Difficile Infection Using Multimodal Data Mining.

Cansu Sen, Thomas Hartvigsen, Kajal Claypool, Elke Rundensteiner.

ECML/PKDD 2017.

PROFESSIONAL EXPERIENCE

Research Intern, UMMS, Mentored by Dr. Jomol Matthew

Sep 2018 - May 2019

NSF REU Intern, University of Arizona, Mentored by Prof. Shirley Papuga

Summer 2015

Research Assistant, SUNY Geneseo

Sep 2014 - May 2016

SELECTED AWARDS

Best Poster Award, Graduate Research Innovation and Exchange, WPI
People's Choice Poster Award, Graduate Research Innovation and Exchange
GAANN Ph.D. Fellowship, US Dept. of Ed.

April 2019
Feb 2017/18
2016-2021

TEACHING

NSF Research Experience for Undergraduates primary mentor, WPI.

Summers 2016/17

Teaching Assistant in Mathematics and Biology for
Modeling Biological Systems (2x) and BioStatistics (1x), SUNY Geneseo.

Jan 2015-May 2016

Modeling Biological Systems

Spring 2016

Guest lecturer: taught Percolation Models, created and led in-class exercise
using R, SUNY Geneseo.