Thomas Hartvigsen

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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, Graduate Research Innovation and Exchange, WPI	April 2019
People's Choice Poster Award, Graduate Research Innovation and Exchange	Feb 2017/18
GAANN Ph.D. Fellowship, US Dept. of Ed.	2016-2021

TEACHING

NSF Research Experience for Undergraduates primary mentor, WPI.	Summers 2016/17
Teaching Assistant, SUNY Geneseo, Modeling Bio. Systems (2x) and BioStats (1x)	Jan 2015-May 2016
Modeling Biological Systems, SUNY Geneseo	Spring 2016

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