Stefan Hegselmann
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EDUCATION

Massachusetts Institute of Technology, Massachusetts, USA 2022
Visiting student in the MIT Clinical Machine Learning Group
Supervisor: Prof. David Sontag

University of Münster, Münster, Germany 2018 – present
Medical Studies

University of Münster, Münster, Germany 2017 – present
PhD, Computer Science
Advisor: Prof. Xiaoyi Jiang and Prof. Martin Dugas

University of California Berkeley, Berkeley, USA 2015
Semester abroad during master's studies

RWTH Aachen University, Aachen, Germany 2014 – 2016
Master of Science, Computer Science with minor in Mathematics
Overall grade: 1.0 *excellent* (grades from 1.0 to 4.0)

University of Gothenburg, Gothenburg, Sweden 2013
Semester abroad during bachelor's studies

RWTH Aachen University, Aachen, Germany 2011 – 2014
Bachelor of Science, Computer Science with minor in Mathematics
Overall grade: 1.0 *excellent* (grades from 1.0 to 4.0)

RESEARCH EXPERIENCE

Research Assistant, Pattern Recognition and Image Analysis Lab, Münster 2021 – present
Working on interpretable machine learning for healthcare

Research Assistant, Institute of Medical Informatics, Münster 2017 – 2021
Working on interoperability and computer aided decision support

Student Assistant, Institute of Medical Informatics, Münster 2016 – 2017
Developed an online portal to share medical metadata

Student Assistant, Human Language Technology and Pattern Recognition Group, Aachen 2016
Implemented a component for a an automatic speech recognition system

Student Assistant, Institute for Theoretical Information Technology, Aachen 2013
Implemented a network simulation for smart meters

TEACHING EXPERIENCE

Teaching Assistant, Medical Informatics Lab, University of Münster   2017, 2018, 2020
Held three lab courses including short lectures

Seminar Assistant, Seminar on mHealth, University of Münster   2017 – 2018
Supervised a student's seminar thesis and talk

Master's Thesis Supervisor, University of Münster   2017
Main supervisor for designing topic and execution of master's thesis

Seminar Assistant, Seminar on eHealth, University of Münster   2017
Supervised a student's seminar thesis and talk

Teaching Assistant, Lecture Mathematical Logic, RWTH Aachen University   2014
Weekly lectures and evaluated students

PUBLICATIONS

An Evaluation of the Doctor-Interpretability of Generalized Additive Models with Interactions   2020
S. Hegselmann, T. Volkert, H. Ohlenburg, A. Gottschalk, M. Dugas, C. Ertmer
Machine Learning for Healthcare 2020

Semantically Annotated Metadata: Interconnecting Samply. MDR and MDM-Portal   2019
A. Vengadeswaran, P., S. Hegselmann, H. Storf, D. Kadioglu
64th Conference of the German Association for Medical Informatics, Biometry

Compatible Data Models at Design Stage of Medical Information Systems: Leveraging Related Data Elements from the MDM Portal   2019
M. Dugas, S. Hegselmann, S. Riepenhausen, P. Neuhaus, L. Greulich, A., J. Varghese
International Medical Informatics Conference 2019

Reproducible Survival Prediction with SEER Cancer Data   2018
S. Hegselmann, L. Greulich, J. Varghese, M. Dugas
Machine Learning for Healthcare 2018

CDEGenerator: an online platform to learn from existing data models to build model registries   2018
J. Varghese, M. Fujarski, S. Hegselmann, P. Neuhaus, M. Dugas
Clinical Epidemiology

A Web Service to Suggest Semantic Codes Based on the MDM-Portal   2018
S. Hegselmann, M. Storck, S. Geßner, P. Neuhaus, J. Varghese, M. Dugas
63th Conference of the German Association for Medical Informatics, Biometry and Epidemiology

Standard based development of ODM converters: the ODMToolBox   2018
I. Soto-Rey, P. Neuhaus, P. Bruland, S. Geßner, J. Varghese, S. Hegselmann, T. Brix, M. Dugas, M. Storck
29th Annual Medical Informatics Europe Conference

Automated Transformation of CDISC ODM to OpenClinica — 2017
S. Geßner, M. Storck, S. Hegselmann, M. Dugas, I. Soto-Rey
62th Conference of the German Association for Medical Informatics,
Biometry and Epidemiology

Automatic Conversion of Metadata from the Study of Health in Pomerania to ODM — 2017
S. Hegselmann, S. Geßner, P. Neuhaus, J. Henke, C.O. Schmidt, M. Dugas
11th Annual Conference on Health Informatics meets eHealth

Inverted HMM - a Proof of Concept — 2016
P. Doetsch, S. Hegselmann, R. Schlüter, H. Ney
30th Conference on Neural Information Processing Systems

Counting in Team Semantics — 2016
E. Grädel, S. Hegselmann
25th EACSL Annual Conference on Computer Science Logic

HONORS AND AWARDS

Springorium Commemorative Coin — 2016
Award for graduation with honors

Dean's List — 2015
List of top five percent of the best students in each year

Schöneborn Award — 2014
Award for outstanding graduates of the science faculty

Dean's List — 2013
List of top five percent of the best students in each year

MISCELLANEOUS

German Academic Exchange Service — 2022
Research scholarship for stay at the Massachusetts Institute of Technology

German Academic Scholarship Foundation Scholarship — 2018 – present
Scholarship for the second course of study in medicine

German Academic Scholarship Foundation Scholarship — 2015 – 2016
Suggested from the science faculty of the RWTH Aachen

German Academic Exchange Service PROMOS Scholarship — 2015
Scholarship for the semester abroad at the University of California, Berkeley

German Academic Exchange Service Erasmus Scholarship — 2013
Scholarship for the semester abroad at the University of Gothenburg

Participation at Youth Researches, German youth science competition — 2010 – 2011
First place at regional level
Third place at state level