

Stefan Hegselmann

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EDUCATION

Massachusetts Institute of Technology , Massachusetts, USA Visiting student in the Clinical Machine Learning Group led by David Sontag	2022
University of Münster , Münster, Germany PhD, Computer Science Advisor: Prof. Xiaoyi Jiang	2021 – present
University of Münster , Münster, Germany Medical Studies	2018 – present
University of Münster , Münster, Germany PhD, Medical Informatics Advisor: Prof. Martin Dugas	2017 – 2021
University of California Berkeley , Berkeley, USA Semester abroad during master's studies	2015
RWTH Aachen University , Aachen, Germany Master of Science, Computer Science with minor in Mathematics Overall grade: 1.0 <i>excellent</i> (grades from 1.0 to 4.0)	2014 – 2016
University of Gothenburg , Gothenburg, Sweden Semester abroad during bachelor's studies	2013
RWTH Aachen University , Aachen, Germany Bachelor of Science, Computer Science with minor in Mathematics Overall grade: 1.0 <i>excellent</i> (grades from 1.0 to 4.0)	2011 – 2014

RESEARCH EXPERIENCE

Research Assistant , Pattern Recognition and Image Analysis Lab, Münster Working on interpretable machine learning for healthcare	2021 – present
Research Assistant , Institute of Medical Informatics, Münster Working on interoperability and computer aided decision support	2017 – 2021
Student Assistant , Institute of Medical Informatics, Münster Developed an online portal to share medical metadata	2016 – 2017
Student Assistant , Human Language Technology and Pattern Recognition Group, Aachen Implemented a component for a an automatic speech recognition system	2016
Student Assistant , Institute for Theoretical Information Technology, Aachen Implemented a network simulation for smart meters	2013

TEACHING EXPERIENCE

Teaching Assistant , Medical Informatics Lab, University of Münster Held three lab courses including short lectures	2017, 2018, 2020
Seminar Assistant , Seminar on mHealth, University of Münster Supervised a student's seminar thesis and talk	2017 – 2018
Master's Thesis Supervisor , University of Münster Main supervisor for designing topic and execution of master's thesis	2017
Seminar Assistant , Seminar on eHealth, University of Münster Supervised a student's seminar thesis and talk	2017
Teaching Assistant , Lecture Mathematical Logic, RWTH Aachen University Weekly lectures and evaluated students	2014

PUBLICATIONS

An Evaluation of the Doctor-Interpretability of Generalized Additive Models with Interactions S. Hegselmann, T. Volkert, H. Ohlenburg, A. Gottschalk, M. Dugas, C. Ertmer Machine Learning for Healthcare 2020	2020
Semantically Annotated Metadata: Interconnecting Samplify. MDR and MDM-Portal A. Vengadeswaran, P., S. Hegselmann, H. Storf, D. Kadioglu 64th Conference of the German Association for Medical Informatics, Biometry	2019
Compatible Data Models at Design Stage of Medical Information Systems: Leveraging Related Data Elements from the MDM Portal M. Dugas, S. Hegselmann, S. Riepenhausen, P. Neuhaus, L. Greulich, A., J. Varghese International Medical Informatics Conference 2019	2019
Reproducible Survival Prediction with SEER Cancer Data S. Hegselmann, L. Greulich, J. Varghese, M. Dugas Machine Learning for Healthcare 2018	2018
CDEGenerator: an online platform to learn from existing data models to build model registries J. Varghese, M. Fujarski, S. Hegselmann, P. Neuhaus, M. Dugas Clinical Epidemiology	2018
A Web Service to Suggest Semantic Codes Based on the MDM-Portal S. Hegselmann, M. Storck, S. Geßner, P. Neuhaus, J. Varghese, M. Dugas 63th Conference of the German Association for Medical Informatics, Biometry and Epidemiology	2018
Standard based development of ODM converters: the ODMToolBox I. Soto-Rey, P. Neuhaus, P. Bruland, S. Geßner, J. Varghese, S. Hegselmann, T. Brix, M. Dugas, M. Storck	2018

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 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