

Madelon Hulsebos

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EDUCATION	Doctor of Philosophy Computer Science, University of Amsterdam.	2020 - present
	Master of Science Computer Science, TU Delft.	2016 - 2018
	Pre-masters Computer Science, TU Delft. Philosophy of Natural Sciences, Leiden University.	2014 - 2016
	Bachelor of Science Technology, Policy and Management, TU Delft.	2011 - 2015
INDUSTRY EXPERIENCE	Software Engineering Research Intern Software Engineering, Sigma Computing. <ul style="list-style-type: none">- Developing methods to improve the accuracy and coverage of the semantic column type detection system at Sigma.- Supporting the implementation of the developed method in production.- Publishing the developed solutions in scientific conferences.	2021 - present
	Data Scientist Global Analytics, The HEINEKEN Company. <ul style="list-style-type: none">- Built scalable and robust AI products to optimize marketing strategies with an estimated impact of \$60M.- Mentored 2 data scientists and 2 analytical consultants.- Presented on AI topics, data observability and software practices. Initiated discussion groups for the Data Science community.	2020 - 2021
	Data Scientist Finance Analytics, KPN. <ul style="list-style-type: none">- Developed a more accurate and fine-grained financial forecasting product.- Implemented Scrum processes and adopted the Scrum Master role.	2019 - 2020
	PhD researcher Intelligent Data Engineering (INDE) Lab, University of Amsterdam <ul style="list-style-type: none">- Research on semantic table understanding to facilitate data validation, search and integration. Currently building a large repository of tables.	2020 - present
ACADEMIC EXPERIENCE	Visiting Collaborator Media Lab, Massachusetts Institute of Technology <ul style="list-style-type: none">- Led a research project on semantic table understanding using NLP and DL.- Contributed to a data visualization training and benchmarking repository.	2018 - 2019

Graduate Teaching Assistant	2017 - 2018
Pattern Recognition & Web Information Systems, TU Delft.	
<ul style="list-style-type: none"> - Provided support to 250+ graduate students in multiple courses. - Evaluated student assignments, projects and presentations. 	

Research and Teaching Assistant	2017 - 2017
Machine Learning for Big Data, Aalto University.	
<ul style="list-style-type: none"> - Designed the assignments of an ML course with 500+ students. - Built research experiments for semi-supervised learning over networks. 	

ADDITIONAL EXPERIENCE	Member of the Supervisory Board	2017 - present
	UniPartners Delft, consulting sector. <ul style="list-style-type: none"> - Supervising the long-term policies pursued by the executive board. - Inspecting financial statements and - Improved the effectiveness by increasing financial control, improving the meeting structure and motivating objective oriented leadership. 	
	Member of the Executive Board	2015 - 2016
	UniPartners Delft, consulting sector. <ul style="list-style-type: none"> - Controlled and optimized the quality of internal and external processes. - Daily management of projects, contributing to a revenue of over €100 K. - Moderated the CRM system (Salesforce) and trained 10+ boards. 	

SKILLS	General	mentoring, workshop organization, consulting, Scrum, Agile.
	Research	natural language processing, knowledge bases, weak supervision, deep learning.
	Data science	machine learning, bayesian modeling, causal inference, computer vision, statistics, data validation, data visualization.
	Languages	Python, Java, Matlab, R, Visual Basic, LaTeX.
	Tools	Scikit-learn, TensorFlow, Keras, PyStan, Stanford CoreNLP, NLTK, Git, Airflow.

PUBLICATIONS	Zhang, D., Suhara, Y., Li, J., Hulsebos, M. , Demiralp, C., Tan, W. “ <i>Sato: Contextual semantic type detection in tables</i> ”, accepted to VLDB (acceptance rate 17%), VLDB, 2020.
	Hulsebos, M. , Hu, K., Bakker, M., Zraggen, E., Satyanarayan, A., Kraska, T., Demiralp, C., Hidalgo, C. “ <i>Sherlock: A deep learning approach to semantic data type detection</i> ”, in ACM SIGKDD (acceptance rate 14%). ACM, 2019.
	Hu, K., Gaikwad, N., Hulsebos, M. , Bakker, M., Zraggen, E., Hidalgo, C., Kraska, T., Li, G., Satyanarayan, A., Demiralp, C. (2018) “ <i>VizNet: Towards a large-scale visualization learning and benchmarking repository</i> ”, in ACM CHI (acceptance rate 24%). ACM, 2019.
	Jung, A., Hulsebos, M. (2018) “ <i>The Network Nullspace Property for compressed sensing over networks</i> ”, in IEEE ICASSP (acceptance rate 48%). IEEE, 2018.