Madelon Hulsebos

+31 6 832 33 767

madelon.hulsebos@gmail.com

EDUCATION

Doctor of Philosophy   2020 - present
Computer Science, University of Amsterdam.

Master of Science   2016 - 2018
Computer Science, TU Delft.

Pre-masters   2014 - 2016
Computer Science, TU Delft.
Philosophy of Natural Sciences, Leiden University.

Bachelor of Science   2011 - 2015
Technology, Policy and Management, TU Delft.

INDUSTRY EXPERIENCE

Data Scientist   2020 - present
Global Analytics department, The HEINEKEN Company.
- Developing marketing evaluation tools using causal inference techniques,
  from idea to scalable product.
- Mentoring 2 data scientists and 2 analytical translators.
- Organizing workshops and presentations on data science topics.

Data Scientist   2019 - 2020
Finance Analytics team, KPN.
- Developed an integrated financial forecasting product, which was more
  accurate and fine-grained than the original manual forecasting method.
- Implemented Scrum processes and adopted the Scrum Master role.

ACADEMIC EXPERIENCE

PhD researcher   2020 - present
Intelligent Data Engineering (INDE) Lab, University of Amsterdam
- Doing research on semantic table interpretation. Currently building a
  large-scale collection of annotated tables using weak-supervision.

Visiting Collaborator   2018 - 2019
Media Lab, Massachusetts Institute of Technology
- Led a research project on semantic table understanding using NLP and DL.
- Contributed to the development of a data visualization training and
  benchmarking repository.

Graduate Teaching Assistant   2017 - 2018
Pattern Recognition & Web Information Systems, TU Delft.
- 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.
- Designed the assignments of an ML course with 500+ students.
- Conducted the experiments for a research project on semi-supervised
  learning of network-structured data sets.

ADDITIONAL EXPERIENCE

Member of the Supervisory Board   2017 - present
UniPartners Delft, consulting sector.
- Supervising the long-term policies pursued by the executive board.
- 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.
- 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	semantic table interpretation, natural language processing, knowledge bases, weak supervision, deep learning.
Data science	machine learning, bayesian modeling, causal inference, computer vision, statistics, data visualization, data science, data analysis.
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. "*Sato: Contextual semantic type detection in tables*", accepted to VLDB (acceptance rate 17%), VLDB, 2020.

Hulsebos, M., Hu, K., Bakker, M., Zgraggen, E., Satyanarayan, A., Kraska, T., Demiralp, C., Hidalgo, C. "*Sherlock: A deep learning approach to semantic data type detection*", in ACM SIGKDD (acceptance rate 14%). ACM, 2019.

Hu, K., Gaikwad, N., **Hulsebos, M.**, Bakker, M., Zgraggen, E., Hidalgo, C., Kraska, T., Li, G., Satyanarayan, A., Demiralp, C. (2018) "*VizNet: Towards a large-scale visualization learning and benchmarking repository*", in ACM CHI (acceptance rate 24%). ACM, 2019.

Jung, A., **Hulsebos, M.** (2018) "*The Network Nullspace Property for compressed sensing over networks*", in IEEE ICASSP (acceptance rate 48%). IEEE, 2018.