Curriculum Vitae
Madelon Hulsebos

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in

EDUCATION

Master of Science
Computer Science, TU Delft.   9/2016 - 7/2018

Pre-masters
Computer Science, TU Delft.   9/2015 - 6/2016
Philosophy of Natural Sciences, Leiden University.   9/2014 - 6/2015

Bachelor of Science
Technology, Policy and Management, TU Delft.   9/2011 - 7/2015

INDUSTRY EXPERIENCE

Data Scientist   1/2020 - present
Commerce department, The HEINEKEN Company.
- Developing marketing evaluation tools using causal inference
  techniques, from idea to product.
- Improving the machine learning and software engineering capabilities
  of The HEINEKEN Company, on a global scale.

Data Scientist   3/2019 - 12/2019
Finance department, KPN.
- Developed a financial forecasting product, which was more accurate
  and finer-grained.
- Implemented Scrum processes and adopted the Scrum Master role.

ACADEMIC EXPERIENCE

Visiting Collaborator   8/2018 - 2/2019
Media Lab, Massachusetts Institute of Technology.
- Led a research project on automatic semantic type detection using
  NLP and DL techniques.
- Contributed to the development of a data visualization training and
  benchmarking repository.

Graduate Teaching Assistant   9/2017 - 2/2018
Pattern Recognition, TU Delft.
- Provided support to 200+ graduate students and reviewed their
  assignments.

Graduate Teaching Assistant   9/2017 - 2/2018
Web Information Systems, TU Delft.
- Supported 250+ graduate students during Q&A sessions and
  reviewed their projects and presentations.

Research and Teaching Assistant   7/2017 - 10/2017

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.

SKILLS

General	research, consulting, project management, process optimization.
Modeling	machine learning, deep learning, statistical modeling, computer vision, natural language processing, data visualization, data analysis.
Languages	Python, Java, Matlab, R, Visual Basic, LaTeX.
Tools	TensorFlow, scikit-learn, 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, 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.

EXTRA-CURRICULAR EXPERIENCE

Member of the Supervisory Board   2/2017- present

UniPartners Delft, consulting sector.
- Supervising the long-term policies pursued by the executive board.
- Improving the structure of the board by increasing the number of
  meetings, financial supervision and improving objective-oriented
  steering.

Member of the Executive Board   2/2015 - 2/2016

UniPartners Netherlands, 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). Trained 10+ boards.