

Friso H. Kingma

Curriculum Vitae

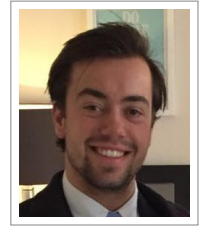
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Education

- 01/2020–
present **Master - Applied Mathematics**, *Delft University of Technology*, Delft, The Netherlands.
- 06/2019–
12/2019 **Master's Thesis - Econometrics and Management Science**, *Erasmus University*, Rotterdam, The Netherlands.
Grade: 9.0 / 10
Title: *Improving Data Compression Based On Deep Learning*
Supervisor: Prof. M. van de Velden
- 09/2017–
12/2019 **Master of Science (M.Sc.) - Econometrics and Management Science**, *Erasmus University*, Rotterdam, The Netherlands.
Specialisation: Operations Research and Quantitative Logistics.
GPA: 4.0
Interesting courses: Machine Learning, Stochastic Models and Optimisation and (Advanced) Mathematical Programming.
- 09/2018–
06/2019 **Visiting Student Researcher - Berkeley Artificial Intelligence Research (BAIR)**, *University of California*, Berkeley, USA.
Paper: *Bit-Swap: Recursive Bits-Back Coding for Lossless Compression with Hierarchical Latent Variables*.
Links: [blogpost](#), [talk](#), [slides](#), [poster](#), [code/demo](#), [berkeley lectures](#)
Purpose of visit: research.
Supervisor: Prof. P. Abbeel.
Research emphasis: deep unsupervised learning and lossless compression techniques.
- 02/2017–
08/2017 **Bachelor's Thesis - Industrial and Applied Mathematics**, *Delft University of Technology*, Delft, The Netherlands.
Grade: 8.0 / 10
Title: *BagDrop: Computationally Feasible Approximate Bagging with Neural Networks*
Supervisor: Prof. M. Loog
- 09/2013–
08/2017 **Bachelor of Science (B.Sc.) - Industrial and Applied Mathematics**, *Delft University of Technology*, Delft, The Netherlands.
Electives: Algorithms and Datastructures, Decision Theory, Combinatorial Optimization en Systems Theory.
- 09/2016–
01/2017 **Minor - Biomedical Engineering**, *Delft University of Technology*, Delft, The Netherlands.
Interesting course: Medical Imaging (including image analysis and pattern recognition).

Publications

Friso H. Kingma, Pieter Abbeel, Jonathan Ho

Bit-Swap: Recursive Bits-Back Coding for Lossless Compression with Hierarchical Latent Variables.

Proceedings of the 36th International Conference on Machine Learning (ICML).

(Biggest ML conference in the world - over 6000 attendees - over 3000 submissions - selected for 20 min oral: ~5% accept rate.)

Long Beach, 2019

Job Experience

11/2019– **NextGen - Migration Project**, *Adyen*, Amsterdam, The Netherlands.

present 30 hours per week.

Working with a large group of students to migrate merchant information from sheer documents into a data-driven system.

12/2015– **Functional Designer and Consultant**, *CPM Consultancy*, Alphen aan den Rijn, The Netherlands.

08/2018

8 hours per week.

Responsible for designing, maintaining and (on request) modifying construction process management systems (part of BIM) for various contractors. Advising contractors about project management in Relatics and designing automatic reports. Advanced skills in the online software Relatics.

Voluntary Work

09/2017– **Chairman**, *Delftsche Studenten Hockey Club*, Delft, The Netherlands.

08/2018 8 hours per week.

Accredited with 3 months of financial support from the profiling fund of the Delft University of Technology. Managing the 3rd oldest Dutch fieldhockey club (1898) and the biggest student fieldhockey club in Delft. Counting 350 active members, on top-sport and recreational level.

09/2016– **Chairman**, *Delftsche Studenten Offset Commissie Grafico / Grafico Delft*, Delft.

08/2017 8 hours per week.

Accredited with 3 months of financial support from the profiling fund of the Delft University of Technology. Managing a growing non-profit printing company founded by students and completely run by students. Responsible for the improvement of the business processes and the guidance, improvement of the order processing system, the overhaul of the business area and final responsibility.

Languages

Dutch **Native**

English **Fluently**

German **Basic**

Programming- and Softwareskills

Webdesign **HTML, CSS, Javascript, jQuery, PHP and MySQL**

Programming **Java, Python, C#, C++, Excel VBA, R, LaTeX, MATLAB and Maple**