

# Curriculum Vitae Matthijs de Jong

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AI graduate eager to work on exciting problems. Looking for work that allows for creative thinking and innovative problem-solving. I've developed state-of-the-art machine learning models for novel applications. Experienced in working on larger software projects. I combine technical expertise with good soft and interpersonal skills.



## Education

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2019 - 2024	<b>MSc Artificial Intelligence</b> , Radboud University. Grade average: <b>8.7</b> . MSc thesis grade: <b>9.0</b> .
2016 - 2019	<b>BSc Artificial Intelligence</b> , Radboud University. Grade average: <b>8.4</b> . Completed two interdisciplinary Honors programs.

## Publications

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de Jong, M., Viebahn, J., Shapovalova, Y.: Graph Neural Networks for Power Grid Topology Control, draft in progress.

de Jong, M., Viebahn, J., Shapovalova, Y.: Imitation Learning for Intra-Day Power Grid Operation through Topology Actions. In: Springer Communications in Computer and Information Science. To appear in ECML-PKDD 2024 post-workshop proceedings.

## Projects

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**MSc Thesis.** Performed the first in-depth studies for *graph neural networks* (GNNs) and imitation learning for grid topology control. Designed innovative GNN models for topology control. The model outperformed and outgeneralized existing models. Performed data analysis, hyperparameter tuning, error analysis, feature importance analysis, and inference speed testing. Prepared a codebase of >5000 LOC for further internal use.

**Intelligent Systems for Medical Imaging.** Developed YOLOv3 and ensemble models for lymphocyte segmentation and classification. The model performed well on the training set but poorly on the test set due to dataset shift.

**BSc Thesis.** Applied, validated, and analyzed interventions for algorithmic bias.

## Experience

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Jan - Oct 2022	<b>Intern</b> , TenneT TSO.
Jun - Aug 2020	<b>Fundraiser</b> , SQPeople.
Jan - Jul 2019	<b>Student Assistant</b> , Radboud University. Academic Skills 2 & Bayesian Statistics.
Sep 2018 - Jul 2019	<b>Co-Founder</b> , Brily Student Company.

## Skills

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**Machine Learning.** Experienced with the full machine learning development process. Proficient with a wide range of models and techniques.

**Data Science & Statistics.** Experienced with many data science and statistical techniques, such as Bayesian modeling, frequentist statistics, forecasting, visualization, dimensionality reduction, etc.

**Software Engineering.** Proficient in object-oriented and functional programming, such as Python, R, Java, and C#. Worked on large projects with many contributors.

**Academic Skills.** Experienced in writing, presenting, teaching, and supervision.

## **Other**

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**Conferences.** Presented at the ECML-PKDD 2024 conference.

**Awards.** International Philosophy Olympiad: Bronze medal (2016), participation (2015). Dutch Philosophy Olympiad: First place (2015), second place (2016).

**Extracurricular activities.** Student representative at the Radboud Honours Academy program council (2017 - 2018), secretary at ACAI symposium committee (2016 - 2017).

**Honors Programs.** Interdisciplinary Climate Adaptation program (2017-2018). Heart for Science (2016 - 2017).

## **References**

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