

FLORIAN MOHNERT

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EDUCATION

- MSc. Artificial Intelligence, University of Amsterdam**, running GPA: 8.5/10 09.2017 - 08.2019
- *Specialization*: Machine Learning & Natural Language Processing
 - *Courses include*: Machine Learning 1 & 2, Natural Language Processing 1, Reinforcement Learning, Information Theory, Unsupervised Language Learning, Statistical Machine Translation, Computer Vision, Information Retrieval, Multi-Agent Systems
 - *Thesis*: "Optimal Goal Setting for Bounded Agents."
 - *Supervisors*: Falk Lieder (Max Planck Institute for Intelligent Systems), Herke van Hoof (ML Lab Amsterdam)
- BSc. Psychology, University of Groningen**, GPA: 8.3/10 09.2014 - 07.2017
- *Specialization*: Cognitive Psychology & Statistics
 - *Thesis*: "A graphical modelling approach to study behavioral interventions on household energy usage."
 - Bachelor thesis was published in the journal *Frontiers in Psychology*.
 - *Supervisors*: Prof. Casper Albers, Prof. Linda Steg
- Minor in Mathematics & CS, University of Hong Kong** 09.2016 - 02.2017
- 30 credit Minor partially completed during semester abroad in Hong Kong.
 - *Courses*: Probability theory, Linear Algebra, Multivariable Calculus, Neural Networks in AI, Data Visualization
 - Received Groningen University Fund (GUF) to cover travel expenses.
- Honours Program, University of Groningen**
- Offered to top 10% of students across all Bachelor programs
 - Interdisciplinary courses and projects worth 45 credits (ECTS)

EXPERIENCE

- Research Intern, Max Planck Institute for Intelligent Systems, Tübingen** 03.2019 - 08.2019
- Master's thesis research on Optimal Goal Setting for Bounded Agents.
 - Results are about to be published as 2 papers (1st accepted and 2nd submitted) at top-tier academic conferences.
 - *Host*: Dr. Falk Lieder (PI of the Rationality Enhancement group)
- Research Intern, Max Planck Institute for Intelligent Systems, Tübingen** 07.2018 - 09.2018
- Modelling of human decision making in risky choices with metacognitive Reinforcement Learning.
 - Results were published at top-tier academic conference.
 - *Host*: Dr. Falk Lieder (PI of the Rationality Enhancement group)
- Teaching Assistant: Natural Language Processing, University of Amsterdam** 11.2018 - 02.2019
- Course taught by Dr. Ekaterina Shutova for first year MSc. AI students.
 - Teaching weekly programming and recitation sessions and supervising final projects.
- Research Assistant: Interpretable Deep Learning for NLP, ILLC Amsterdam** 04.2018 - 08.2018
- Investigated how hierarchical linguistic structure represented in Recurrent Neural Networks.
 - Invented a novel computational Intervention that resulted in a large increase in LSTM's performance.
 - Resulting paper won the best paper award at EMNLP workshop BlackboxNLP (chosen out of 76 papers).
 - *Supervision*: Prof. Jelle Zuidema
- Internship: Data Science, Sowiso Amsterdam** 07.2017 - 09.2017
- *Sowiso*: E-learning platform for Mathematics and other Exact Sciences.
 - Exploring stable predictors for lower performance in student population.
 - Design and implementation of new visualization tool for the teacher learning analytics dashboard.
- Research Assistant: Time Series Modelling, University of Groningen** 05.2016 - 09.2016
- Performed a Time series analyses of Household Energy consumption data in the Netherlands.
 - Applied and learned about different time-series models such as Vector Autoregression & Hidden-Markov Models.
 - Presented my results in a department wide meeting.
 - *Supervision*: Prof. Casper Albers (Department of Statistics and Psychometrics)

- Taught English and math in a Buddhist temple located in Wadduwa.

PUBLICATIONS

1. Florian Mohnert, Mateo Tošić and Falk Lieder (2019). **Testing Computational Models of Goal Pursuit.** *In Proceedings of the Conference on Computational Cognitive Neuroscience.*
2. Florian Mohnert, Thorsten Pachur and Falk Lieder (2019). **Whats in the Adaptive Toolbox and How Do People Choose From It? Rational Models of Strategy Selection in Risky Choice.** *In Proceedings of the 41st Annual Meeting of the Cognitive Science Society.*
3. Mario Giulianelli*, Jack Harding*, Florian Mohnert*, Dieuwke Hupkes and Willem Zuidema (2018). **Under the hood: Using diagnostic classifiers to investigate and improve how language models track agreement information.** *In proceedings of 1st EMNLP workshop Analyzing and interpreting neural networks for NLP. **Best paper award***
4. Nitin Bhushan, Florian Mohnert, Lise Jans, Daniel Slood, Casper Albers and Linda Steg, 2018. **Using a Gaussian Graphical Model to Explore Relationships between Items and Variables in Environmental Psychology Research.** *Frontiers in Psychology.*

* joint first authorship

SKILLS

Programming (> 3 years of regular use)	Python, Matlab, R, Bash, git, L ^A T _E X
Programming (familiar with)	Javascript (esp. D3.js), SQL, HTML/CSS
Deep Learning	PyTorch, Keras
Spoken Languages	German (native), English (fluent)