

# FLORIAN MOHNERT

florianmohnert.github.io ◇ mail@florian-mohnert.de

## EDUCATION

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- MSc. Artificial Intelligence**, *University of Amsterdam*, current GPA: 8.4/10 09.2017 - now
- Coursework includes: Machine Learning 1 & 2, Natural Language Processing, Reinforcement Learning, Information theory, Unsupervised Language Learning, Machine Translation, Computer Vision, Information Retrieval, Multi-Agent Systems
  - Thesis: "Optimal Goal Setting for Bounded Agents."
  - Supervisors: Falk Lieder (MPI for Intelligent Systems), Herke van Hoof (Amsterdam Machine Learning Lab)
- Minor Mathematics & CS**, *University of Hong Kong (Exchange) & University of Groningen* 09.2016 - 07.2017
- Coursework: Probability theory, Linear Algebra, Multivariable Calculus, Neural Networks, Data Visualization
- BSc. Psychology**, *University of Groningen*, GPA: 8.3/10 09.2014 - 07.2017
- Specialization: Cognitive Psychology and Statistics
  - Thesis: "A graphical modelling approach to study behavioral interventions on household energy usage."
  - Supervisors: Dr. Casper Albers, Dr. Linda Steg
- Honours Program**, *University of Groningen*, GPA: 8.5/10 09.2015 - 07.2017
- 45 additional credits of interdisciplinary courses and projects
  - Offered to top 10% of students across all Bachelor programs
- Abitur** (German High school certificate), *Gymnasium Johanneum, Hamburg* 09.2006 - 08.2014

## PUBLICATIONS

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

\* These authors contributed equally.

## EXPERIENCE: RESEARCH

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- Internship: Research**, *Max Planck Institute for Intelligent Systems, Tübingen* 07.2018 - 10.2018
- Topic: Modelling of human decision making in risky choice with metacognitive Reinforcement Learning.
  - Resulting model predicts human choices better than previous approaches.
  - Supervision: Dr. Falk Lieder
- Project: Interpretable Deep Learning for NLP**, *ILLIC, Amsterdam* 07.2018 - 10.2018
- Topic: Uncovering how linguistic knowledge is represented in Recurrent Neural Networks.
  - Computational Intervention based on the insights from experiments resulted in a large increase in LSTM's accuracy.
  - Supervision: Prof. Jelle Zuidema
- Research Assistant**, *University of Groningen, Department of Statistics* 01.2016 - 09.2017
- Topic: Time series analyses of Household Energy consumption data in the Netherlands.
  - Supervision: Prof. Casper Albers
- Research Assistant**, *University of Groningen, Department of Social Psychology* 09.2015 - 09.2016
- Topic: Two experiments on Norm development in chat conversations, more specifically the effect of subtle signals on perceived sexism.
  - Supervision: Dr. Namkje Koudenburg

## EXPERIENCE: OTHER

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- Teaching Assistant: Natural Language Processing 1 (MSc. course)**, *University of Amsterdam* 11.2018 - 02.2019
- Teaching weekly programming and recitation sessions and supervising research projects.

**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 graphics for the teacher learning analytics dashboard.

**Volunteer Teacher, Wadduwa, Sri Lanka**

07.2015 - 09.2015

- Taught English and math in a Buddhist temple.

**SKILLS**

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