

# Christopher Brix

## Student at RWTH Aachen

### Personal Info

#### Address

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#### LinkedIn

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### Skills

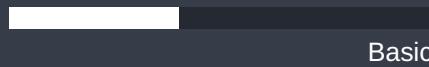
#### Python



#### C



#### TensorFlow



### Languages

#### German



#### English



#### French



### References

#### GitHub

<https://github.com/ChristopherBrix>

Computer Science student with focus on **machine learning**. Experienced in machine translation research using neural networks with **2 publications**. Evaluated the performance of a **novel network architecture** (2D-LSTM for NMT) during the bachelor thesis.

### Education

#### Apr 2018 - present RWTH Aachen, Computer Science, M.Sc.

- Average grade after 2 semesters: 1.7

#### Oct 2014 - Mar 2018 RWTH Aachen, Computer Science, B.Sc.

- Bachelor thesis "Extension of the Attention Mechanism in NMT", grade 1.2
- Seminar "Representation Learning", grade 1.3
- Minor in Business Administration
- Graduated with final grade 1.6

### Publications

Oct 2018 Coauthored paper "Towards Two-Dimensional Sequence to Sequence Model in Neural Machine Translation", published in EMNLP 2018

Jun 2017 Coauthored paper "Empirical Investigation of Optimization Algorithms in Neural Machine Translation", published in the PBML

### Experience

#### Nov 2016 - present Student Research Assistant

RWTH, Human Language Technology and Pattern Recognition, Professor Ney  
Developed, implemented and evaluated alternatives for the attention mechanism in NMT

- Implemented Theano and TensorFlow support for two-dimensional LSTM using C/CUDA
- Independent research for optimal hyperparameters
- Integration into inhouse machine learning framework

#### Jul 2019 LxMLS, Monitor

Will help to organize the summer school, supervise and teach participating students

#### Jun 2018 LxMLS, Participant

Participated in the Lisbon Machine Learning Summer School

#### Apr 2016 - Sep 2016 Tutor

RWTH, Data structures and algorithms

- Weekly training for students of the subject
- Grading of homework and exams
- Topics: Runtime analysis, formal proof of correctness, sorting algorithms

### Honors

2016, 2018 Supported by the scholarship "Deutschlandstipendium"

2016, 2017 Member of the Dean's List

### Additional Projects

#### Jan 2016 - Jul 2016 Möbelfirst

Möbelfirst offers an online marketplace for exhibition furniture

- Programming of the online marketplace
- Self-responsible project planning

#### Aug 2012 - Jun 2014 Own online economic simulation game

- Project planning and game design
- Guidance and training of the other 2 team members