

# LEONARD ADOLPHS

## PhD Student in Machine Learning

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📍 Zurich, Switzerland

🌐 leox1v.com

🐙 github.com/leox1v

## EDUCATION

### PhD Student in Machine Learning

#### Data Analytics Lab, ETH Zurich

📅 Aug. 2018 – Present 📍 Zurich, Switzerland

- Research interests: Natural Language Understanding, Reinforcement Learning, Non-Convex Optimization

### M.Sc. Computer Science

#### ETH Zurich

📅 Sep. 2016 – May 2018 📍 Zurich, Switzerland

- Focus on Data Science/ Machine Learning courses
- Thesis: Non Convex-Concave Saddle Point Optimization
- GPA: 5.71 / 6 (Very good)

### B.Sc. Electrical Engineering

#### Karlsruher Institute of Technology

📅 Sep. 2013 – July 2016 📍 Karlsruhe, Germany

- GPA: 1.6 / 1.0 (good)

## PUBLICATIONS

LeDeepChef – Deep Reinforcement Learning Agent for Families of Text-Based Games

L. Adolphs\*, T. Hofmann

📄 Preprint 📅 Sep. 2019

Ellipsoidal Trust Region Methods and the Marginal Value of Hessian Information for Neural Network Training

L. Adolphs\*, J. Kohler\*, A. Lucchi

📄 Preprint 📅 May 2019

Local Saddle Point Optimization: A Curvature Exploitation Approach

L. Adolphs\*, H. Daneshmand, A. Lucchi, T. Hofmann

📄 AISTATS 2019 📅 Jun. 2018

## WORK EXPERIENCE

### iOS Software Engineer

#### sovanta AG

📅 Jul. 2015 - Nov. 2016 📍 Heidelberg, Germany

- Three months internship followed by one year as a working student.
- Software design and development of native iOS and Android Apps for business customers.

## TEACHING

### Natural Language Understanding

🏛️ ETH Zurich 📅 Spring 2019

### Deep Learning

🏛️ ETH Zurich 📅 Fall 2018

### Machine Learning

🏛️ ETH Zurich 📅 Fall 2017

## ACHIEVEMENTS

### First TextWorld Problems: A Reinforcement and Language Learning Challenge

🏆 2nd place 📅 Aug. 2019

- I developed a deep reinforcement learning agent to solve a family of text-based games. The agent scored 2nd among more than 20 competitors.

### German Golf Team Championships

🏆 1st place 📅 Aug. 2014

### German Youth Golf State Championships

🏆 1st place 📅 Jun. 2011

## SKILLS

Python ● ● ● ● ● ●

PyTorch, Tensorflow ● ● ● ● ●

R, Objective-C, Swift ● ● ● ● ●

German, English ● ● ● ● ●