

# LEONARD ADOLPHS

CAB F 42.1, Universitatstrasse 6 ◊ 8092 Zurich

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## EDUCATION

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### PhD in Computer Science

2018 - Today

*Data Analytics Lab, ETH Zurich*

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

### M.Sc. in Computer Science

2016 - 2018

*ETH Zurich*

- Thesis: Non Convex-Concave Saddle Point Optimization
- Cumulative GPA: 5.71 / 6.0 (Very good)

### B.Sc. in Electrical Engineering and Information Technology

2013 - 2016

*Karlsruhe Institute of Technology*

- Thesis: Identifying muscle pre-contraction to control an exoskeleton.
- Cumulative GPA: 1.6 / 1.0 (good)

## PUBLICATIONS

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

Preprint 2019

*Leonard Adolphs, Thomas Hofmann*

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

Preprint 2019

*Leonard Adolphs\*, Jonas Kohler\*, Aurelien Lucchi*

### Local Saddle Point Optimization: A Curvature Exploitation Approach

AISTATS 2019

*Leonard Adolphs\*, Hadi Daneshmand, Aurelien Lucchi, Thomas Hofmann*

## TEACHING EXPERIENCE

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### Natural Language Understanding

Spring 2019

*ETH Zurich*

### Deep Learning

Fall 2018

*ETH Zurich*

### Machine Learning

Fall 2017

*ETH Zurich*

## WORK EXPERIENCE

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### sovanta AG

July 2015 - November 2016

*Software Engineer, Internship + Working Student*

*Heidelberg, Germany*

- Software Design and Development of native iOS and Android Apps for business customers.

## TECHNICAL STRENGTHS

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<b>Programming Languages</b>	Python, R, Objective-C, Swift, Java
<b>ML Frameworks</b>	PyTorch, Tensorflow
<b>Tools</b>	git

## OTHER ACHIEVEMENTS

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<b>Runner-up in Microsoft's <i>First TextWorld Problems: A Reinforcement and Language Learning Challenge</i></b>	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.	
<b>Player in the 1st German Golf League for the Team of GCMV</b>	2010-2016
<b>German Team Champion (Golf)</b>	2014
<b>German Youth State Champion (Golf)</b>	2011