

Marc Fischer

I am currently a PhD student in Computer Science at ETH Zurich in Switzerland. Academically I am interested in Machine Learning/AI, Programming Languages, Systems, Mathematics and especially their interaction. My main area of interest are Machine Learning methods that are to some extent reliable, interpretable, explainable or secure.

Born: February 20, 1993
Graz, Austria
Nationality: Austrian

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Education

- 2019- PhD in Computer Science, ETH Zurich
- 2017-2019 MSc in Computer Science, ETH Zurich
My thesis project studied the intersection of Deep Learning and Logic.
- 2013-2017 BSc in Computer Science, ETH Zurich
- 2007-2012 Secondary College of Electronic Data Processing and Organization (“Matura”),
Kaindorf a.d. Sulm

Honors & awards

- 2019 Silver Medal of ETH Zurich for an outstanding Master’s thesis

Publications

- 2019 Marc Fischer, Mislav Balunovic, Dana Drachsler-Cohen, Timon Gehr, Ce Zhang, and Martin Vechev. D_{l2}: Training and querying neural networks with logic. In *International Conference on Machine Learning*, 2019
- 2018 Pavol Bielik, Marc Fischer, and Martin Vechev. Robust relational layouts synthesis from examples for android. In *ACM SIGPLAN Notices*. ACM, 2018

Teaching

- 2019 Student Supervision in Seminar “Deep Learning for Big Code”
ETH Zurich, by Dr. Veselin Raychev and Prof. Martin Vechev
- 2019 Teaching Assistant for “Paralleles Programmieren”
(Parallel programming for Computer Science Undergraduates),
ETH Zurich, by Prof. Martin Vechev and Prof. Torsten Hoefler
- 2018 Teaching Assistant for “Reliable and Interpretable Artificial Intelligence”,

- 2016 ETH Zurich, by Prof. Martin Vechev
Teaching Assistant for “Paralleles Programmieren”
(Parallel programming for Computer Science Undergraduates),
ETH Zurich, by Dr. Felix Friedrich
- 2015 Teaching Assistant for “Informatik I”
(Introduction to Programming/Computer Science for Electrical Engineers),
ETH Zurich, by Dr. Felix Friedrich

Work Experience

- 2017-2018 Student Research Assistant at SRILab (www.sri.inf.ethz.ch) with Prof. Martin Vechev,
ETH Zurich
Research related to querying constraints on neural neural networks, adversarial examples/robustness, deep reinforcement learning, program synthesis and interpretability of
deep learning. Civil Service as Software Developer at the Styrian Fire-brigade Administration (www.lfv.steiermark.at),
Focus: general software development, internal tools
- 2012 Internship as Software Developer at SLR Engineering (www.slr-engineering.at),
Focus: Computer Vision, Optimization
- 2011 Internship as Software Developer at Atronic/Spielo GmbH (www.spielo.com),
Focus: general software development, internal tools
- 2010 Internship as Software Developer at Infonova/BearingPoint (www.infonova.com),
Focus: general software development, fulfillment software

Languages

- German, mother tongue
- English, fluent, C2
- Spanish, beginner, A1-A2

Hobbies

- Cooking
- Reading
- History
- Computer Gaming
- Photography