

Andreas Bloch

Machine Learning Enthusiast

Computer Scientist **ETH** zürich

«My passion is to solve challenging problems for business and humanity through the power of cutting-edge machine learning technologies.»



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Zürich, Switzerland 📍

17 May, 1988 📅

linkedin.com/in/andreas-bloch in

andbloch.github.io 🌐

WORK EXPERIENCE

Associate IT Consultant

Orbium

10/2013 – 05/2014

Zürich & Berlin

Parametrization of the Avaloq Banking Suite (E-Banking, Output Management) for three major banks in Germany. Requirements engineering in close collaboration with the clients.

Technologies: Avaloq, PL/SQL, XML

Research Assistant

ZHAW

05/2013 – 07/2013

Winterthur

Continuation of bachelor thesis: Implementation of a system for transportation mode detection (Android app and server app) for SBB and Swisscom. Conduction of software engineering trainings.

Technologies: Java (Spring Framework, WEKA Machine Learning Library), Android (Spring Mobile), MySQL

Web Developer

ZHAW & Press Play

12/2012 – 02/2013

Winterthur

Implementation of the website for the event and live voting of the Swiss Music Awards of 2013. Desktop and mobile client via responsive design.

Technologies: PHP (Drupal), JavaScript (jQuery), CSS (LESS), HTML

Junior Software Engineer

Namics

06/2012 – 09/2012

St. Gallen

Internship in software engineering: Integration of a rule-engine into the Swissport Lounge Check-in System.

Technologies: Java (Spring Framework, Hibernate, OpenRules), MySQL, HTML, JavaScript (jQuery)

Specialist Consumer Finance

Credit Suisse (Bank-now)

05/2008 – 08/2010

Horgen

Customer care for consumer credits in German, French, Italian and English.

Private Equity Salesman

Conseillers Suisse

11/2007 – 02/2008

Zürich

Cold calling for private equity investments in biodiesel companies.

Call Agent Outbound

RBC Solutions

01/2007 – 05/2007

Feldmeilen

Cold calling for Schuler wines, Landbote newspapers, AIG insurances.

SKILLS

Machine Learning Deep Learning

Data Mining Recommender Systems

Natural Language Processing

Software Development Consulting

CERTIFICATES

Avaloq Certified Professional (2013-2015)

HONOR AWARDS

ZHAW School of Management and Law
Dean's list for best graduation in Business Information Technology (09/2013)

LANGUAGES

English Full Professional Proficiency

German Native Proficiency (Bilingual)

Italian Native Proficiency (Bilingual)

French Full Professional Proficiency

Portuguese Professional Proficiency

INTERESTS

Kitesurfing Swimming Barbecue

Artificial Intelligence Technology

Mathematics Socializing

PUBLICATIONS

Battery-Efficient Transportation Mode Detection on Mobile Devices

Andreas Bloch, Robert Erdin, Sonja Meyer, Thomas Keller, Alexandre de Spindler, June 2015, 16th IEEE International Conference on Mobile Data Management.

EDUCATION

B.Sc. Computer Science (Grade: 5.46/6.0)

ETH Zürich

09/2014 – 09/2019

Thesis: Mixed-Curvature Space Representations for Recommender Systems

Specialization: Elective courses in machine learning, including

- Deep Learning
- Data Mining
- Machine Learning
- Visual Computing
- Probabilistic Artificial Intelligence
- Learning and Intelligent Systems
- Building a Robot Judge

ETH zürich

B.A.Sc. Business Administration (Grade: 5.65/6.0)

ZHAW School of Management and Law

09/2010 – 09/2013

Thesis: Battery-Efficient Transportation Mode Detection on Mobile Devices

Specialization: Business Information Technology

zhaw
School of
Management and Law

High School Diploma

High School of Küsnacht

08/2002 – 08/2006

Linguistic profile (Italian)

KANTONSSCHULE
KÜSNACHT

PERSONAL PROJECTS

- **Open-Source Contribution:** Of κ -Stereographic Model to the geometric optimization library [geoopt](#).
- **Machine Learning Blog:** Publication of several blogposts about topics in ML on [andbloch.github.io](#).
- **Continuous Learning:** Regularly updating ML skills through research papers and online courses.

IT SKILLS IN DETAIL

Python

Pytorch, Tensorflow, Keras, Sklearn, Spacy, Numpy, Pandas, Matplotlib

Java

Spring, Hibernate, Android, Maven

C++, C, x86 Assembly

Eigen, OpenCV, OS Kernel Modules, IDA, GDB

Matlab

MySQL, PostgreSQL, PL/SQL

Amazon Web Services

Linux, Unix

PHP, HTML, CSS & JavaScript

Wordpress, Drupal, NodeJS, jQuery, Angular, WebGL, Less, Sass

Haskell
