

FABIAN HEINRICH

Air Force Officer & Machine Learning Engineer

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📍 86159 Augsburg, Germany

EXPERIENCE

Electronic Warfare Officer

German Air Force

📅 October 2020 – Ongoing

📍 Augsburg, Germany

- Machine Learning Engineer
- working in a research group focusing on future development in Electronic Warfare

EDUCATION

M.S. in Computer Science

Universität der Bundeswehr München

📅 January 2019 – September 2020

📍 Munich, Germany

- Focus: Signal Processing, Machine Learning, Number Theory
- Thesis: *Learning Communication Channels with Autoencoders*
- Final Grade: 1.06
- Valedictorian

B.S. in Mathematical Engineering

Universität der Bundeswehr München

📅 October 2016 – December 2018

📍 Munich, Germany

- Focus: IT, Communications and Security
- Thesis: *Distribution of Quadratic Residues*
- Final Grade: 1.42
- Valedictorian

Summer School

Boston University

📅 June 2018 – September 2018

📍 Boston, MA

- CAS CS542 Machine Learning, Grade A
- CAS SO205 American Families, Grade A

RESEARCH EXPERIENCE

LISP Research Group

Boston University

📅 August 2018 – Ongoing

📍 Boston, MA

- Principal Investigator: Professor Sang Peter Chin
- Research Interests: Machine Learning, Signal Processing

Chair of Signal Processing

Universität der Bundeswehr München

📅 October 2020 – Ongoing

📍 Munich, Germany

- Director: Professor Andreas Knopp
- Research Interests: Channel Autoencoder, Channel Coding



AWARDS

Bestpreis Luftwaffe

Awarded by the German Air Force

📅 October 2021

Study Prize Awarded by ITIS e.V.

Outstanding Master's Thesis

📅 May 2021

UNIVERSITY TEACHING

Tutoring Lectures

Universität der Bundeswehr München

📅 October 2017 – September 2020

- Linear Algebra I, II
- Numerics and Differential Equations
- Number Theory

SKILLS

Machine Learning

PyTorch

Signal Processing

Channel Coding

Number Theory

University Teaching

Electronic Warfare

Military Leadership

LANGUAGES

English

German

Spanish



HOBBIES

Lacrosse

Track & Field

Triathlon

Snowboarding

Cooking

Reading