

FELIX DOLLACK

PhD candidate



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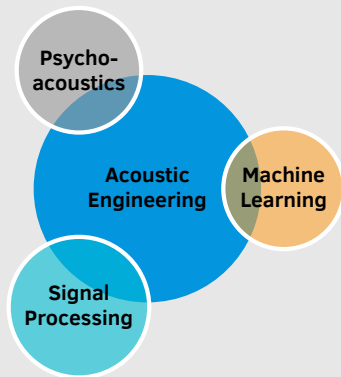
[/in/felix-dollack](https://in/felix-dollack)



[felixdollack](https://github.com/felixdollack)

Technical Skills

Overview



Programming

0 LOC —————> 5000 LOC

C • Matlab • \LaTeX

C++ • Python • Android

C# • Bash

Education

MSc., Hearing Technology and Audiology (GPA: 3.0)

Specialization: Psychoacoustics

University of Oldenburg

2015 - 2017 | Oldenburg, Germany

B.Eng., Hearing Technology and Audiology (GPA: 3.0)

Jade University of Applied Sciences

2009 - 2013 | Oldenburg, Germany

Experience

Dec 2015 -
Mar 2017

Software Engineer

Fraunhofer IIS

- Primarily worked on the implementation of AAC bluetooth in Android using C++
- Customer support for implementing audio coding algorithms
- Exploiting and fixing code vulnerabilities using american fuzzy loop

Aug 2014 -
Oct 2014

Internship student

Bertrandt

- Primarily developed a plugin to simulate the effect of car muffler designs using Matlab
- Built a car muffler
- Setup a muffler test booth
- Acoustics and vibration measurement in cars

Research

2017 - today

PhD Candidate

University of Tsukuba

Topic: Auditory Mirroring: Amplifying And Reflecting Acoustic Communication In Different Perceptual Domains

- Implement algorithms to extract paralinguistic features from voice
- Create biofeedback device for amplifying and reflecting acoustic communication
- Verify the effects of the device on shaping vocal behaviour

Tools: C++, Matlab, Python, tensorflow

2013 - 2015

MSc. Candidate

University of Oldenburg

Thesis: Investigation on the human performance at identifying facing angle with respect to acoustic externalization and presentation of different complex visual stimuli

- Created VR environments to perform psychoacoustic experiments
- Performed distance perception experiment to verify externalization
- Performed experiment to identify the just noticeable difference in facing angle

Tools: Matlab, Unity, Oculus Rift

2009 - 2013

BSc. Candidate

Jade University of Applied Sciences

Thesis: The influence of the site of installation of a circular microphone array on acoustic source localization

- Built circular microphone arrays
- Implemented and compared source localization algorithms (global coherence field, doppler, multiple signal classification)
- Evaluated the influence of site of installation

Tools: Matlab

Publications

F. Dollack, C. Imbery and J. Bitzer, "On the Analysis of Acoustic Distance Perception in a Head Mounted Display", in 2017 International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments (ICAT-EGVE), ICAT-EGVE, 2017.

F. Dollack, C. Imbery, S. van de Par and J. Bitzer, "Einfluss von visueller Stimulation auf Distanzwahrnehmung und Externalisierung", in DAGA 2016, DAGA, 2016.

M. Hansen, F. Dollack, S. Raufer, Hannah-Lina Grahlmann and G. Eberlei, "Speech intelligibility in realistic listening situations for different numbers, azimuths and movement of speech or noise maskers", in Proceedings of the AIA-DAGA 2013, including the 40th Italian (AIA) Annual Conference on Acoustics, AIA-DAGA, 2013.