



Barbara Gigerl

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About Me



I am currently a PhD Student at Graz University of Technology, Austria. I am part of the Secure Systems group at the Institute of Applied Information Processing and Communications. My research interests include side-channel analysis on secure systems, especially power-analysis attacks and countermeasures.

Personal Data

Born	Dipl-Ing. Dipl-Ing. Barbara Gigerl, BSc BSc December 21st, 1994 in Deutschlandsberg
Citizenship	Austria
Languages	German (mother tongue), English (C1-B2), Spanish (A2), Mandarin (A1)
Interests and Hobbies	Creative writing and poetry slams, Volleyball, participating in CTF competitions with LosFuzzys (the university's CTF team)

Education

since 2019	Graz University of Technology , PhD studies, advisor: Stefan Mangard Research area: security of embedded systems, side-channel attacks, power analysis, implementation and development of countermeasures
2017-2019	Graz University of Technology , Master degrees with distinction 🎓 Computer Science, thesis: <i>Utility of Transfer Entropy for the Extraction of Influence Networks</i> 🎓 Software Engineering and Management, thesis: <i>Automated Analysis of Speculation Windows in Spectre Attacks</i>

2014- 2017	Graz University of Technology , Bachelor degrees with distinction  Computer Science  Software Development and Business Management Thesis: <i>A Generic Side-Channel Protected AES Implementation for 32-bit RISC-V Processors</i>
2009- 2014	HTBLA Kaindorf , Matura with distinction Focus: Electronic Data Processing and Management
2001- 2009	Primary and secondary school in Eibiswald

Work and Teaching Experience

since 2019	Graz University of Technology University Assistant
2018	Information Management Systems Institute, Athena RC Summer Internship in Athens, research about fake news detection in social media
2017	Graz University of Technology Summer Internship at the Institute of Applied Information Processing and Communications, research about the application of formal methods in machine learning environments
2016- 2019	Graz University of Technology Study Assistant at the Institute of Applied Information Processing and Communications Courses: <i>Operating Systems, Systems Programming, Logic and Computability</i>
2016	LOGICDATA Electronic & Software Entwicklungs GmbH Summer Internship, IT system administration and network maintenance
2015- 2016	Snowreporter Telekommunikationssysteme GmbH Part-time, web development
2015	evolaris next level GmbH Summer Internship, web development
2012- 2015	Jungheinrich Systemlösungen GmbH Summer Internship, software development and warehouse optimization

Talks and Presentations

May 2019	Transient Execution Attacks: Still hARMful? Barbara Gigerl, Claudio Canella Qualcomm Product Security Summit, San Diego, California, USA
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Awards

- December 2019 **Würdigungspreis des BMWFW 2019**
State Prize of the Republic of Austria (*Staatspreis*) of the Federal Ministry for Education, Science and Research for the best master and diploma degree students
- Juni 2014 **Hofrat-Trummer Medaille 2014**
Award as best student of the final year 2014 at HTBLA Kaindorf