

JULIAN WILHELM RENNER

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EDUCATION

- 03/2019 - 05/2019 **Université de Rennes 1**
Research stay at the Mathematics Department (IRMAR)
Collaborators: Dr. Pierre Loidreau, Dr. Julien Lavauzelle
Main result: Cryptanalysis of a System Based on Twisted Reed–Solomon Codes
- 11/2017 - to date **Technical University of Munich (TUM)**
PhD student, COD group, Department of Electrical and Computer Engineering
Supervisor: Prof. Dr.-Ing. Antonia Wachter-Zeh
Research area: Code-based cryptography
Expected graduation date: 10/2021
- 02/2017 - 10/2017 **Eindhoven University of Technology (TU/e)**
PhD student, Signal Processing Systems group, Department of Electrical Engineering
Supervisor: Prof. Dr. Frans Willems
Research area: Embedding digital communication in car radars
- 06/2014 - 12/2016 **Technical University of Munich (TUM)**
Master of Science in Electrical and Computer Engineering
Focus on Communication Systems, Information Theory and Digital Signal Processing
Master's thesis on "Multidimensional Probabilistic Shaping for the Nonlinear Fiber Channel" at Prof. Kramer's Institute for Communications Engineering in collaboration with Prof. Forchhammer (Technical University of Denmark)
Grade average: 1.0 (passed with high distinction, US-equivalent: A+)
- 08/2015 - 01/2016 **Technical University of Denmark (DTU)**
ERASMUS student during the fall term 2015
Lectures: Optimization and Data Fitting, Nonlinear Signal Processing, C++
- 05/2011 - 06/2014 **Technical University of Munich (TUM)**
Bachelor of Science in Electrical and Computer Engineering
Focus on Communication Technology and Digital Signal Processing
Bachelor's thesis on "Quantization of Log-Likelihood-Ratios in Multiple-Input Multiple-Output Systems" at Prof. Utschick's Chair of Signal Processing Methods
Grade average: 1.5 (passed with distinction, US-equivalent: A)
- 09/2001 - 05/2010 **Karl-von-Closen-Gymnasium in Eggenfelden, Germany**
Higher education entrance qualification (A-levels)

EXPERIENCE

- 03/2015 - 08/2015 **Rohde & Schwarz in Munich**
Part-time engineer in the department "Development of Baseband-HW and Signalgenerators for Wireless Applications"
Development and implementation of automatization and test routines
- 04/2014 - 07/2014 **Technical University of Munich**

Student teaching assistant for the lecture "Control Systems 1" (Prof. Buss's Chair of Automatic Control Engineering)

Offered as a result of an excellent performance in the examination

08/2013 - 10/2013 **Rosenberger High-Frequency Technology in Fridolfing**

Intern in the R&D department

Measurement of cable-connector combinations with spectrum analyzers

Evaluation of the in-house training kit

04/2013 - 07/2013 **Technical University of Munich**

Student teaching assistant for the laboratory "Audio and Image Processing" (Prof. Rigoll's Institute for Human-Machine Communication)

Offered as a result of an excellent performance in the lecture "Signals"

AWARDS

2016/2017

Deutschlandstipendium at TUM

Scholarship for young outstanding talents at Technical University of Munich

Sponsorship by Rheinmetall

2016

FIT weltweit

Performance-related scholarship for international research stays

Sponsorship by German Academic Exchange Service (DAAD)

2015/2016

Deutschlandstipendium at TUM

Scholarship for young outstanding talents at Technical University of Munich

Sponsorship by MAN Truck & Bus Company

2014/2015

Deutschlandstipendium at TUM

Scholarship for young outstanding talents at Technical University of Munich

Sponsorship by Wipro Technologies

SOCIAL COMMITMENT

2014 - 2017

Tennisclub Eggenfelden

Organization of league games

Active player and captain of the men's team

2009 - 2017

Tennisclub Wurmannsquick

Organization of taster courses for grad-schoolers

Support in the youth work

ADDITIONAL SKILLS

Programming Matlab, C/C++, SageMath, Python, VHDL

Languages German (native language), English (fluent, both written and spoken)

Certifications Tennis coach certification received from the Bavarian Tennis Association

Leisure activities Tennis, volleyball, skiing