

ARTHUR MARCEL

FIBICH

CONTACT INFO

E-mail arthur.marcel.fibich@rwth-aachen.de

Phone Nr +49 241 80 214 31

Address Ahornstraße 55 (E3), 52074 Aachen

LinkedIn linkedin.com/in/arthurfibich

ABOUT ME

I am a 24 year old Ph.D. student with a M.Sc. and B.Sc. in Computer Science and a B.Sc. in Mathematics. Currently, I am pursuing a Ph.D. in Computer Science at COMSYS, RWTH Aachen University.

EXPERIENCE

RESEARCHER/PHD-STUDENT 2025-
COMSYS, RWTH Aachen University | Aachen, Germany

- We'll see ;D

HiWi 2022,2023
COMSYS, RWTH Aachen University | Aachen, Germany

- Designed, optimized and implemented P4-Code to compute coordinate transformations in-network
- Reduced runtime by a factor of 24 by implementing architecture-specific optimizations
- Extended OMNeT++-Simulation of hierarchical, distributed, aggregating energy matching algorithm by a dominant-strategy incentive-compatible (DSIC) method

TUTOR: MATHEMATICS PREPARATION COURSE 2020-2023
RWTH Aachen University | Aachen, Germany

- 4 weeks of tutoring each year
- Reduced the chances of the students to fail their maths courses (in one case from 70% to 2/18)

TUTOR: DATA STRUCTURES AND ALGORITHMS 2021
RWTH Aachen University | Aachen, Germany

INTERN: WEB DEVELOPMENT 2017,2018
MRS Electronic | Rottweil, Germany

- Helped creating the company website

INTERN: COMPUTER VISION APP DEVELOPMENT

2017

Mitutoyo CTL | Oberndorf, Germany

- Created a general gesture control interface for Windows/Linux

EDUCATION

M.Sc. Computer Science

2023-2025

RWTH Aachen University | Aachen, Germany

- Final Grade: tbd
- Thesis topic: "Distributed Computation of Maximum Flows in Electric Grids Exploiting Structural Properties"

B.Sc. Mathematics

2019-2024

RWTH Aachen University | Aachen, Germany

- Final Grade: 2.3
- Thesis topic: "Explicit characterization of two-dimensional multiplier systems for vector valued modular forms"

B.Sc. Computer Science

2019-2023

RWTH Aachen University | Aachen, Germany

- Final Grade: 1.5
- Thesis topic: "Game Theoretic Analysis of Proactive Demand-Supply Matching in Electricity Grids"
- Thesis/Colloquium grades: 1.0/1.0

Abitur

2019

Leibniz-Gymnasium | Rottweil, Germany

- Final Grade: 1.1
- School Prize in Mathematics (co-best-in-year)
- School Prize in Computer Science (best-in-year)
- GdCh Prize in Chemistry (best-in-year)
- Frei Lacke Prize in Science
- Core Subjects: Mathematics, German, Chemistry, English, Economics/Business; Computer Science

ACHIEVEMENTS

Awards

- 2018: 2nd prize for research "Grevolution" (Jugend Forscht)
- 2016: 2nd prize for research "Rennfeurofen - Hightech trifft Mittelalter" (Jugend Forscht)
- 2015: 2nd prize for research "Rennfeurofen - Hightech trifft Mittelalter" (Jugend Forscht)

Graded Papers

- Master Thesis: Distributed Computation of Maximum Flows in Electric Grids Exploiting Structural Properties [Grades Outstanding]
- Bachelor Thesis: Explicit characterization of two-dimensional multiplier systems for vector valued modular forms [1.7]
- Bachelor Thesis: Game Theoretic Analysis of Proactive Demand-Supply Matching in Electricity Grids [1.0/1.0]
- Seminar: Introduction to Infinite Products [1.0]
- Seminar: An Overview of OpenMP Target Device Offloading to FPGAs [1.3]
- Proseminar: Time-Dependent and Time-expanded Routing Algorithms [1.0]

SKILLS



Diverse Programming Languages (C++, Python, P4, Java, JS, ...), Technical and Scientific Writing



LaTeX



Mathematics ;D

Languages

- German (native)
- English (Full professional proficiency)
- French (Out of Use)

REFERENCES

René Glebke, M.Sc.

Researcher
COMSYS, RWTH Aachen University
+49 241 80-21424
rene.glebke@comsys.rwth-aachen.de

Dr. Kathrin Maurischat

Researcher, Lecturer
Chair A for Mathematics, RWTH Aachen University
+49 241 80 94526
kathrin.maurischat@matha.rwth-aachen.de

Silke Pach

Principal
LG Rottweil
+49 741 15116
+49 170 7131737