Patrick Schmidt

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WORK EXPERIENCE

Visual Computing Institute, Aachen, Germany — Research Assistant

MAY 2017 - PRESENT (PhD Student)

Applying numerical optimization techniques to challenging geometric problems, e.g. surface parametrization and shape correspondence. Advisor: Professor Leif Kobbelt.

Autodesk, Cambridge, United Kingdom — Software Engineering Intern

JUNE 2016 - SEPTEMBER 2016

Worked on automatic quad mesh generation tools as part of a scrum team. Contributed to a C++ library that is used in e.g. ReMake, Fusion 360 and Maya.

RWTH Aachen University, Germany — Student Research Assistant

OCTOBER 2014 - MAY 2016

Designed and implemented a novel algorithm for user-guided surface parametrization.

FOERST Driving Simulators, Germany — Software Engineering Intern

MARCH 2011 - JULY 2011

Implemented a map editor as part of a commercial driving simulation software in C++.

EDUCATION

RWTH Aachen University — M. Sc. Computer Science

OCTOBER 2011 - MARCH 2017

GPA: 3.9. **Coursework**: Computer Graphics, Geometry Processing, Discrete Differential Geometry, Computer Vision, Convex Optimization, Operations Research.

PUBLICATIONS

Interactively Controlled Quad Remeshing of High Res. 3D Models

Hans-Christian Ebke, **Patrick Schmidt**, Marcel Campen, Leif Kobbelt SIGGRAPH ASIA 2016

TEACHING EXPERIENCE

RWTH Aachen University, Germany — *Teaching Assistant*

Basic Techniques in Computer Graphics (2017 - present): Giving tutorials and substitute lectures, supervising student TAs, designing assignments and exams for ~250 students.

Current Topics in Computer Graphics (2017): Supervised literature seminar of 20 students.

Programming and **Formal Systems, Automata, Processes** (2012 - 2014): Gave weekly tutorials and graded homework assignments of ~20 students.

ADDITIONAL EXPERIENCE

ACM SIGGRAPH — Student Volunteer Team Leader

Student Volunteer (2015, 2016), Team Leader (2017, 2018, 2019): Managed ~400 volunteers as one of 22 team leaders. Juried application process, trained and supervised volunteers on-site.

GMP 2018, Aachen, Germany — Conference Coordinator

Lead preparation and on-site logistics of computer graphics conference with 90 attendees.

AWARDS & SCHOLARSHIPS

Berthold Vöcking Master Award for outstanding master thesis (2017).

Graduation with Honors Awarded for GPA 3.9 and master thesis 4.0 (2017).

Germany ScholarshipFunding due to outstanding academic performance (2014 – 2016).

Dean's List for being among the top 5% of B.Sc. graduates (2014).

PROGRAMMING LANGUAGES & TOOLS

C++ (7 years), Python. Prior experience: Matlab, Maple, Java, C#, PHP, HTML, CSS, JavaScript

SKILLS

Geometry Processing (Surface Parametrization, Quad Meshing), Computer Graphics, Numerical Optimization, Data Structures & Algorithms. Basic knowledge: Computer Vision, Machine Learning

LANGUAGES

English: fluent German: native

INTERESTS

Forró (Brazilian Partner Dance), Sports (Wakeboarding)