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Sven Prüfer

Curriculum Vitae

Education

- Oct. 2012 – May 2017 **PhD**, UNIVERSITÄT AUGSBURG, Augsburg, Germany.
Mathematics, *Hurwitz Numbers and Symplectic Geometry of Moduli Spaces* under Kai Cieliebak
- Oct. 2009 – Sep. 2011 **Master of Science**, LUDWIG-MAXIMILIANS-UNIVERSITÄT, Munich, Germany, Grade 1.0.
Theoretical and Mathematical Physics, *Mirzakhani's Recursion Relations and the Witten Conjecture*
- Oct. 2006 – Aug. 2009 **Bachelor of Science**, UNIVERSITÄT LEIPZIG, Leipzig, Grade 1.2.
International Physics Study Program, *From Maxwell's Equations to Yang–Mills Theory*
- Aug. 1997 – June 2005 **Abitur**, GYMNASIUM ENGELSDORF, Leipzig, Grade 1.2.
Bonus Project: *The Hohmann Ellipse and Lagrangian Points for Space Travel*

Professional Experience

- June 2017 – Today **Researcher and Software Developer**, DEUTSCHES ZENTRUM FÜR LUFT- UND RAUMFAHRT, Oberpfaffenhofen.
Software Development of Mission Planning Systems at the German Space Operations Center
- Oct. 2012 – Mar. 2017 **Research and Teaching Assistant**, UNIVERSITÄT AUGSBURG, Augsburg.
 - Exercise classes for various lectures in Bachelor and Master programs
 - Foundation and organization *Working Seminar Geometry/Topology*
 - Organization of various scientific conferences and work shops
- May 2012 – June 2012 **Lecturer**, MICHIGAN STATE UNIVERSITY, East Lansing, MI, USA.
Teaching a course on geometry targeted at prospective high school teachers including lectures, exercise classes, exams and grading
- Sep. 2008 – Sep. 2011 **Teaching Assistant**, UNIVERSITÄT LEIPZIG AND LMU, Leipzig and Munich.
 - Exercise classes for symplectic geometry and various preparational courses
 - Drawing scientific figures for *From Stein to Weinstein and Back* by Kai Cieliebak and Yakov Eliashberg
- Oct. 2006 – July 2007 **Proofreader**, LE-TEX PUBLISHING SERVICES GMBH, Leipzig.
Proofreading of various scientific journals
- Oct. 2005 – June 2006 **Civil Service**, STUDENTENWERK LEIPZIG, Leipzig.
Driver for the student service center Leipzig

Experience Abroad

- Dec. 2011 – Sep. 2012 **Research Stay**, MICHIGAN STATE UNIVERSITY, East Lansing, MI, USA.
 - Research on symplectic geometry with Thomas Parker
 - Creation of a website offering exercise problems to high school teachers in the US
- Aug. 2007 – July 2008 **Study Abroad**, UNIVERSITÉ JOSEPH FOURIER, Grenoble, France.

Voluntary Work

- May 2016 – July 2016 **Tutor**, KIRON UNIVERSITY, Augsburg.
Organisation and lecturing of various math preparatory courses for refugees at Kiron university
- Dec. 2014 – Today **Vice Chairman**, MATHEMATICAL-PHYSICAL SOCIETY, Augsburg.
Organisation and administration of MPV, management of bank account and website
- Aug. 2013 – Today **Organizer**, MATH STUDENT CIRCLE AUGSBURG, Augsburg.
○ Foundation and organization of the math student circle Augsburg including administration, public relations and planning of new activities
○ Leading yearly math summer camps with about 90 participants from 2014
- May 2013 – May 2014 **Spokesman for Scholars**, GERMAN NATIONAL ACADEMIC FOUNDATION, Augsburg.
Organization of local activities of Augsburg scholars
- Sep. 2006 – Today **Math Circle Tutor**, LEIPZIGER SCHÜLERGESELLSCHAFT FÜR MATHEMATIK, Leipzig.
○ Math circles for high school students of age 10 to 18
○ Organization of math summer camps including leading of LSGM winter camp 2014
○ Organization of various club activities

Publications

- June 2008 S. Prüfer, M. Ziese, STUDY OF MAGNETIZATION PROCESSES USING HIGHER AC-SUSCEPTIBILITY, *physica status solidi (b)*, **245**(8), 1661 – 1668

Scholarships

- April 2013 – Mar. 2016 **PhD Scholarship of German National Academic Foundation**
- Jan. 2012 – Aug. 2012 **Assistance for Studies Abroad of German National Academic Foundation**
- Feb. 2009 – Sep. 2011 **German National Academic Foundation (Studienstiftung des deutschen Volkes)**

IT-Knowledge

- Program. Languages Scala, C#, .NET, Python, C++, SQL, Javascript, Fortran
- Tools and OS Git, Visual Studio, IntelliJ IDEA, LaTeX, Emacs, GNU/Linux
- Scientific Languages Octave, Sage, Maple
- Techniques OpenCV, Machine Learning, Continuous Integration, Agile Development
- Web and Media HTML, CSS, Apache, Inkscape, GIMP, Scribus, Word, Excel, PowerPoint

Talks and Conferences

- June 2015 UNIVERSITÄT MÜNSTER, ETH ZÜRICH, Invited talks on *Hurwitz Numbers and Symplectic Geometry of Moduli Spaces of Maps*
- 2010 – 2017 Various talks in English and German on my research as well as close areas in mathematical seminars, PhD conferences of the German National Academic Foundation and Physics Seminars Leipzig
- 2009 – 2017 Attendance of various conferences on symplectic geometry, topology and string theory

Languages

- Mother tongue **German**
- Fluent **English** written and orally
- Advanced **French** five years of courses and one year stay in France
- Basic **Croatian** one year of a course, basic phrases
- Basic **Spanish** self study, basic phrases

S. Prüfer

Sven Prüfer, Munich, November 19, 2017