

Marcel Rothering

Curriculum Vitae

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Personal Details

Date of birth 22/10/1987
Place of birth Vreden
Citizenship German
Marital status Unmarried
Gender Male

IT Consultant

02/2017 - today Consultant for Big Data and Data Analytics at *saracus consulting GmbH*

Tasks

- Projects with focus on Data Science and Data Engineering
- Used tools in Projects: Spark, Hive, Impala, Sqoop, Python Pandas and scikit-learn
- Cluster Computing with Cloudera CDH and Hortonworks HDP
- Tutor for saracus Big Data Academy
- Supervision of student seminars in collaboration with the *Westfälischen Wilhelms-Universität Münster*

Research Assistant & PhD Student (Academic degree: Dr. rer. nat.)

12/2012 - 12/2016 Research assistant and PhD student for theoretical particle physics at the *Westfälische Wilhelms-Universität Münster*

Tasks

- Program development for resummation predictions for supersymmetric particle production at the Large-Hadron-Collider (www.resummino.org)
- Tutor for undergraduate courses like mechanics, thermodynamics, electrodynamics and quantum mechanics
- Supervision of Bachelor and Master theses
- Supervision of an internship project: DAAD RISE (Research Internships in Science and Engineering)

Talks

- 04/2014 Talk given at the DPG-Conference in Mainz
03/2013 Talk given at the DPG-Conference in Dresden
01/2013 Talk and tutorial given at CERN (Conseil Européen pour la Recherche Nucléaire) for experimental physicists

Publications

1. B. Fuks, M. Klasen, M. Rothering, *Soft gluon resummation for associated gluino-gaugino production at the LHC*, JHEP 07:053, 2016.

2. B. Fuks, M. Klasen, David R. Lamprea, M. Rothering, *Revisiting slepton pair production at the Large Hadron Collider*, JHEP 01:168, 2014.
3. B. Fuks, M. Klasen, David R. Lamprea, M. Rothering, *Precision predictions for electroweak superpartner production at hadron colliders with Resummino*, Eur. Phys. J. C 73, 2480, 2013.
4. B. Fuks, M. Klasen, David R. Lamprea, M. Rothering, *Gaugino production in proton-proton collisions at a center-of-mass energy of 8 TeV*, JHEP 10:081, 2012.

Academic Studies

Master's Degree Program in Physics (Academic Degree: M. Sc.)

- 10/2010 - 12/2012 Master's degree in physics at the Westfälischen Wilhelms-Universität Münster;
Grade: 1.2
- 21.11.2012 Master's thesis; Grade: 1.0
 Titel *Resummation predictions for slepton pair-production and implications for dark matter*
 Emphasis Theoretical particle physics
 Supervisor Prof. Dr. Klasen
 Minor Economy for natural scientists (innovation management and concepts of strategical analysis)
- 08/28 - 09/08/2012 International Summer School and Conference on High Energy Physics: Standard Model and Beyond (ISSCSMB '12)

Bachelor's Degree Program in Physics (Academic Degree: B. Sc.)

- 10/2007 - 10/2010 Bachelor's degree in physics at the Westfälische Wilhelms-Universität Münster;
Grade: 2.1
- 19.07.2010 Bachelor's thesis; Grade: 1.3
 Titel *Optically induced dynamics in coupled two-level-systems*
 Emphasis Theoretical solid state physics
 Supervisor Prof. Dr. Kuhn
 Minor Philosophy (logic and metaphysics)

School Education

- 8/2003 - 7/2007 Secondary school *Städtisches Heriburg-Gymnasium in Coesfeld*; Abitur-Grade: 2.7
- 8/1998 - 7/2003 Secondary school *Städtisches Gymnasium Nepomucenum in Coesfeld*
- 8/1994 - 7/1998 Primary school *Pankratius-Grundschule in Gescher*

Language Skills

- German Mother tongue
- English Fluent written and spoken
- French Elementary level

Technical Skills

- Programming languages C/C++ (advanced), Python (advanced), R (basics), Java (basics), Scala (basics) and Shell (basics)

Software-Tools	Mathematica, Apache Spark, Apache Hive, Apache Sqoop, Apache Flume, Apache Kafka, L ^A T _E X, Gnuplot and MS-Office
Hadoop Distributions	Cloudera CDH and Hortonworks HDP
Operating Systems	Windows and Unix-based systems

Certificates

CCA Spark and Hadoop Developer

Cloudera Certified Administrator for Apache Hadoop (CCAH)

MIT Professional Education - Internet of Things: Roadmap to a Connected World

Hobbies & Interests

-Tennis and racket sports in general

-Socialising with friends, Board games, IT, Video games

Münster, November 6, 2017