amon Winterhalder

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Education

Heidelberg University Heidelberg

Oct. 2017 - Nov. 2020 PhD in Physics

Title: How to GAN - Novel simulation methods for the LHC

· Supervisor: Tilman Plehn

University of Freiburg Freiburg

MSc in Physics Oct. 2014 - Sep. 2017

· Title: Approximations for vector-boson scattering at the LHC

· Supervisor: Stefan Dittmaier

Imperial College London London

IMPERIAL COLLEGE INTERNATIONAL DIPLOMA

Oct. 2015 - Jul. 2016

· Attended courses of the MSc in Quantum Fields and Fundamental Forces

Awarded the IMPERIAL COLLEGE INTERNATIONAL DIPLOMA in Physics

University of Freiburg Freiburg

BSc in Physics Oct. 2011 - Sep. 2014

• Title: Photon induced top quark pair production and dijet production at the LHC

· Supervisor: Stefan Dittmaier

Experience _____

TEACHING

Heidelberg University Heidelberg

TEACHING ASSISTANT Oct. 2017 - Present

• Theoretical Physics I - Tutor (2017)

Theoretical Physics I - Head tutor, preparation of exercise sheets and master solutions (2018)

University of Freiburg Freibura

TEACHING ASSISTANT Oct. 2013 - Jul. 2017

Experimental Physics I - Tutor (2013-2014, 2016-2017)

• Experimental Physics II - Tutor (2015, 2017)

PROFESSIONAL

DILAS Diodenlaser GmbH Freiburg

STUDENT EMPLOYEE Sep. 2014 - Jul. 2017

Electro-optical characterization of high-power diode lasers including near field and M² measurements

Component characterization of tapered amplifiers

Leibniz Institute for Solar Physics

Freiburg

RESEARCH TRAINEE Jul. 2013 - Oct. 2013

- · Improvement of the Fourier-Hankel technique which is used to analyze the seismic wave field on the sun
- · Supervisor: Markus Roth

Semiconductor Systems GmbH

Hinterzarten

TRAINEE AND STUDENT EMPLOYEE

Mar. 2011 - Apr. 2013

- Design of a new company website using Joomla
- · Project manager for the development and introduction of a newly programmed CRM and ERP software
- · Assistance in the setup and introduction of a quality management system

Awards

2017	IMPRS-PTFS, PhD fellowship of the International Max Planck Research School	Heidelberg
2015	Erasmus , Erasmus scholarship for one year at Imperial College London	London
2014 - 2016	Deutschlandstipendium , Scholarship awarded annually to high-achieving students	Freiburg

Talks & Schools _____

2020	ML4Jets, Workshop	New York
2020	CRC Meeting, Parallel Session	Heidelberg
2019	University of Freiburg, Invited Talk	Freiburg
2019	ABHM Research Group Meeting, ABHM = Aachen, Bonn, Heidelberg, Mainz	Bonn
2018	TASI 2018, Summer School	Boulder
2017	ITP Heidelberg, Group Seminar	Heidelberg
2017	Higgs Couplings, Parallel Session	Heidelberg

Skills_____

Languages German (native), English (C1 level), Swedish (A2 level), Latin (intermediate Latin certificate)

Programming C/C++, Python

Web HTML5, CSS, Joomla, Typo3

Frameworks & Tools TensorFlow, Keras, PyTorch, MadGraph, ROOT, Mathematica

References _____

Tilman Plehn

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Anja Butter

Heidelberg University

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Stefan Dittmaier

University of Freiburg

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