

# Curriculum Vitae

## Philipp BRAUN

<b>Date of Birth:</b>	12 November 1985	<b>Address:</b>	<b>Phone:</b> +49 176 63651644
<b>Place of Birth:</b>	Neumarkt i.d.Opf	Marienroggenweg 51	<b>Email:</b> <a href="mailto:braunp@in.tum.de">braunp@in.tum.de</a>
<b>Nationality:</b>	German (EU citizenship)	18147 Rostock	

### EDUCATION

OCT 2011	<b>M.Sc., Applied &amp; Engineering Physics</b>	Technische Universität München
- SEP 2013	<b>Laurea Magistrale, Materials Science</b>	University of Turin
(expected)	<b>Master 2, Chemistry</b>	University of Montpellier 2
	CURRENT GPA: 1.7, Erasmus Mundus Master programme Materials Science Exploring Large Scale Facilities (MaMaSELF) leading to a triple degree	
OCT 2009	<b>B.Sc., Informatics</b>	Technische Universität München
- SEP 2012	<b>Application Area: Physics</b>	
	GPA: 1.8, Thesis title: "Probe position refinement in X-ray ptychography"	
	Advisor: Prof. Thomas Huckle (TUM Informatics), Pierre Thibault, PhD. (TUM Physics)	
OCT 2008	<b>B.Sc., Physics</b>	Technische Universität München
- SEP 2011	<b>Specialization Area: Condensed Matter Physics</b>	
	GPA: 2.2, Thesis title: "Development and analysis of a momentum spectrometer for charged particles emitted after the photo double ionization of ethyne and ethylene"	
	Advisor: Dr. Thorsten Weber (LBNL), Prof. Peter Müller-Buschbaum (TUM)	
APR 2006	<b>Associate Engineer, Computer Systems and Automation</b>	Siemens Technik Akademie
- MAR 2008	GPA: 1.0	Erlangen, Germany
MAY 2005	<b>Abitur,</b>	Melanchthon Gymnasium
	GPA: 1.4	Nuremberg, Germany

### WORK EXPERIENCE

FEB 2013	<b>Research Intern</b>	cSAXS Beamline, PAUL SCHERRER INSTITUTE
- JUL 2013	<b>Coherent Diffractive Imaging</b>	Villigen, Switzerland
(expected)	Masters Student. Advisors: Dr. Andreas Menzel, Dr. Pierre Thibault	
JUL 2012	<b>Research Intern</b>	Coherent Imaging Division, CFEL, DESY
- SEP 2012	<b>Coherent Imaging with FELs</b>	Hamburg, Germany
	Participant in the DESY Summer Programme. 3D phase retrieval algorithms. Binary classification of single-particle diffraction patterns from FELs. Advisor: Dr. Anton Barty	
JUL 2011	<b>Research Intern</b>	AMOS Group, LAWRENCE BERKELEY NATIONAL LABORATORY
- SEP 2011	<b>Atomic and Molecular Physics</b>	Berkeley, U.S.
	Participant in the DAAD RISE programme. Development, simulation and resolution analysis of a 3D momentum spectrometer for charged particles emitted after the photo double ionization of ethyne and ethylene. Help with setup of the experiment at beamline 10.0.1 of the Advanced Light Source. Advisor: Dr. Thorsten Weber	
OCT 2008	<b>Software Engineer</b>	INTERASCO GmbH
- NOV 2009	<b>IT Solutions and Services</b>	Munich, Germany
	Helped defining the architecture for a newly started long term project. Developed an easy to use multithreading framework. Coached the team in using the framework and provided thorough documentation.	
APR 2008	<b>Junior Developer</b>	SWINTON COLLONADE LTD.
- OCT 2008	<b>Insurance and Financial Services</b>	Manchester, U.K.
	Developed enterprise scale object oriented web applications. Developed website frontend with javascript, DHTML, webservice. Monitored website performance and troubleshot defects out of regular working hours.	
OCT 2007	<b>Software Developer Intern</b>	SIEMENS STANDARD DRIVES
- MAR 2008	<b>Manufacturing &amp; Automation</b>	Congleton, U.K.
	Developed an application to streamline tracking of defective circuit boards and increase item throughput in the adjoining factory. Developed an application to automate a small assembly line.	

## COMPUTER SKILLS

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Programming: WEB PAGES (Expert), WINDOWS APPLICATIONS (Expert), Qt (Basic)  
DATABASE DESIGN (Expert)  
Programming Languages: C# (Expert), VISUAL BASIC (Expert), C/C++ (Expert)  
SML (Intermediate), SQL (Intermediate), PERL (Basic),  
HTML (Intermediate), Python (Intermediate)  
Computer Algebra Programs: MATHEMATICA (Intermediate)  
Operating Systems: WINDOWS (Expert), LINUX (Intermediate)  
Office:  $\LaTeX$ , Office-Suite

## MILITARY SERVICE

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JUL 2005 | Private First class at GERMAN AIRFORCE, Landsberg a. Lech  
- MAR 2006 | *Air raid defences*

## LANGUAGES

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ENGLISH: Fluent  
SPANISH: C1 Level  
ITALIAN: A2 Level  
FRENCH: A1 Level

## INTERESTS AND ACTIVITIES

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Technology, Philosophy of Science, University Choir, Programming, Travelling