



CURRICULUM VITAE

CARL MAXIMILIAN MILLER

PROFIL

Date of birth

October 2nd, 1984
Muenchberg
Germany

Nationality

german

Marital status

single

LANGUAGES

German

Mother tongue

English

Business fluent

Spanish

Fluent

French

Basic knowledge

PROGRAMMING SKILLS

Java

C++

R

Python

Databases / SQL

HTML

PHP

JavaScript

Virtualization (Docker)

Cluster computing (SGE,
SLURM, AWS)

ADDRESS

Paulanerplatz 1, 2. Entry
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48 Cedar Ave Apt 2, Highland
Park, 08904, NJ, USA

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WORK EXPERIENCE

Research Assistant, PhD

Protein function in the context of genetic diseases; prediction of functional effects of sequence variants
Rutgers University, NJ, USA; Prof Yana Bromberg Lab
since 10/2015

Research Assistant

Evolutionary trace of protein structure
LFE Bioinformatik, LMU, Munich, Germany; Prof. Ralf Zimmer
10/2013 - 10/2015

IT-Consulting ROKundCO GmbH, Munich, Germany

2009 - 2012

Webdesign / Frontend & Backend programming, including

- ◆ services.bromberglab.org/mifaser
- ◆ services.bromberglab.org/fusiondb/
- ◆ www.wirtshausinerau.de
- ◆ www.muenchner-knoedelei.de

Student Research Assistant, LFE Bioinformatics, Munich, Germany

10/2006 bis 04/2007

Student Trainee IT, Fred Butler (Linde Gas) - Munich, Germany

09/2006 bis 04/2007

Internship IT, Fred Butler (Linde Gas) - Munich, Germany

06/2006 bis 09/2006



PUBLICATIONS

- 04/2017 **clubber: removing the bioinformatics bottleneck in big data analyses** - Journal of integrative Bioinformatics Volume 14 Issue 3
- 03/2017 **mifaser: Functional sequencing read annotation for high precision microbiome analysis** - submitted
- 01/2016 **fusionDB: assessing microbial diversity and environmental preferences via functional similarity networks** - submitted
- 01/2017 **Computational predictors fail to identify amino acid substitution effects at rheostat positions** - Nature Scientific Reports 7:41329



STUDIES

Scientific Assistant

LFE Bioinformatics, LMU, Munich, Germany; Prof. Ralf Zimmer
10/2013 - 10/2015

Master-Studies Bioinformatics (Grade 1,3)

Ludwig-Maximilians-Universitaet Muenchen (LMU), Munich, Germany
Technische-Universitaet Muenchen (TUM), Munich, Germany
4/2009 - 3/2012

Masterthesis: (Grade 1,0)
"Context-based prediction of protein binding strength"

Bachelor-Studies Bioinformatics (Note 2,2)

Ludwig-Maximilians-Universitaet Muenchen (LMU), Munich, Germany
Technische-Universitaet Muenchen (TUM), Munich, Germany
10/2005 - 3/2009

Bachelorthesis: (Grade 1,7)
"miRNA-TARGET-NETWORKS"

A Levels (Grade 2,3)

Justus-von-Gymnasium, Neusaess
07/2004



EXPERIENCE ABROAD

Round-the-world trip including South America, the Caribbean, USA, Pacific Islands, Australia, New Zealand, Central-/South-east-Asia, China, South Africa 05/2012 - 08/2013

Development aid in Bolivia, South America

Institution: Hostelling International
10/2004 bis 01/2005



EXTRACURRICULAR ACTIVITIES

Member of L'Ensemble Medical at LMU Munich, Worldwide tours including Israel, Italy, USA
2010 - 2012

Sideline job at various Areas within ROKundCO GmbH Munich, Germany
2008 bis 2012

Co-Founder, manager and guitarist of the band Plan B, (www.band-plan-b.com);
Concepts, Lightshow and arrangements
2005 bis 2009

Active member of the boys choir: Augsburgener Domsingknaben,
National, International and European tours
1993 bis 2005

Service, Wirtshaus in der Au, Munich, Germany
2008 bis 2012

Service Muenchner Knoedelei / Service Velodrom, Munich, Germany
2010 - 2011, 2015 / 2014

