

# Axel Kunstner

Bioinformatician and next-generation sequencing data specialist

I am working as a Data Scientist and Bioinformatician in the Medical Systems Biology group at the University of Lübeck. My research encompasses the detection of unknown correlations to illuminate genetic causalities and pathomechanisms of rare diseases and in cancer by analyzing high-throughput data (e.g. whole genome/exome sequencing data, RNA-seq data, proteomics data). Additionally, I have a strong background in analysing microbiome data to correlate disease phenotypes with changes in bacterial community composition. I have published over 40 peer-reviewed papers, including 15 first or last authorships (h-index 21).

## Work History

2014-09 - present	<b>Postdoctoral Researcher</b> <i>Lübeck Institute of Experimental Dermatology, University of Lübeck, Lübeck/Germany</i> <ul style="list-style-type: none"><li>Core facility for data analysis</li><li>Next generation sequencing data analyst</li><li>Strong focus on microbiome, tumor and rare diseases</li><li>Statistical modeling and machine learning</li><li>Molecular Tumor Board</li></ul>
2014-09 - 2016-09	<b>Postdoctoral Researcher</b> <i>Max Planck Institute for Evolutionary Biology, Plön/Germany</i> <ul style="list-style-type: none"><li>Microbiome analysis of skin and gut (human and mice)</li><li>Consultant for project design and statistical analysis</li></ul>
2012-02 - 2014-08	<b>Postdoctoral Researcher</b> <i>Department of Molecular Biology, Max Planck Institute for Developmental Biology, Tübingen/Germany</i> Guppy Genome Sequencing Project
2007-03 - 2007-07	<b>Scientific assistant</b> <i>Institute for Medical Informatics, Statistics and Epidemiology, University of Leipzig, Leipzig/Germany</i> ChIP-on-Chip data analysis and software development
2000-12 - 2001-08	<b>Social insurance clerk</b> <i>Gmünder Ersatzkasse, Leipzig/Germany</i> Customer care in scope of marketing/public relations
2000-01 - 2000-11	<b>Civil Service</b> <i>ASB Leipzig, Leipzig/Germany</i> Driver for handicapped people
1999-04 - 1999-12	<b>Social insurance clerk</b> <i>Gmünder Ersatzkasse, Leipzig/Germany</i> Customer care in scope of insurance benefit

## Personal Info

### Date of birth

1977-06-30

### Place of birth

Leipzig

### Citizenship

German

### Email

axel.kunstner@gmail.com

### Phone

+491775576577

### Address

Hauptstr. 7e  
23627 Groß Grönau

### GitHub

<https://github.com/kunstner>

### LinkedIn

[www.linkedin.com/in/axel-kunstner-b2a5315b](http://www.linkedin.com/in/axel-kunstner-b2a5315b)

## Skills

Programming R, Perl, bash ★★★★★

Statistics and Bioinformatics ★★★★★

Next generation sequencing data ★★★★★

## Software

R/rstudio ★★★★★

GATK ★★★★★

## Languages

German ★★★★★

English ★★★★★

Swedish ★★★★★

Russian ★★★★★

# Education

---

2007-08 - 2011-11	<b>Evolutionary Biology Centre, Uppsala University, Uppsala/Sweden</b> <i>PhD, Evolutionary Biology</i>
2005-08 - 2006-12	<b>Uppsala University, Uppsala/Sweden</b> <i>Master of Science, Computer Science</i>
2001-10 - 2005-07	<b>University of Leipzig, Leipzig/Germany</b> <i>Pre-Diploma, Computer Sciences and Biology</i>
1996-08 - 1999-04	<b>Gmünder Ersatzkasse, Leipzig/Germany</b> <i>Social insurance clerk</i>
1992-09 - 1996-07	<b>G.-C. Lichtenberg Gymnasium, Leipzig/Germany</b> <i>A-Level</i>