

# Dr. Martin Hölzer

## PERSONAL DATA

Name: Dr. rer. nat. Martin Hölzer

Gender: Male Nationality: German Family status: Married

Place and Date of Birth: Rudolstadt, Germany | 16 March 1988

> Private Address: Jansonstr. 11, 07745 Jena Work Address: EMBL-EBI, Cambridge, UK

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github.com/hoelzer Code: Web: hoelzer-lab.github.io

## SCIENTIFIC EDUCATION

01/2018 Doctorate degree, Dr. rer. nat.

University of Jena

Grade: summa cum laude

Doctoral thesis: The Dark Art of Next-Generation Sequencing: fundamental approaches for genomics, transcriptomics, and differential gene expression Prof. Dr. Manja Marz, RNA Bioinformatics and High-Throughput Analysis

Faculty of Mathematics and Computer Sciences

since 01/2018 Team leader of an associated bioinformatics research group at the University of Jena

08/2013-12/2017 PhD student at University of Jena

12/2012 **Diploma in Bioinformatics** 

University of Jena

Grade: 1.4

Thesis: Data management of mass spectra and fragmentation trees with BEXIS

Prof. Dr. Sebastian Böcker, Chair of Bioinformatics Faculty of Mathematics and Computer Sciences

10/2007-12/2012 Studies of Bioinformatics at University of Jena

Civilian service, Diakonisches Altenhilfezentrum, Bad Blankenburg 2006-2007

1998-2006 University entrance qualification, Friedrich-Fröbel-Gymnasium, Bad Blankenburg, Grade 2.0

## MAIN AREAS OF RESEARCH

- Bioinformatics
- High-Throughput Sequencing
- Metagenomics and -transcriptomics
- De novo assembly and annotation
- Transcriptomics and comparative genomics
- · Non-coding RNAs
- Microbes and viruses
- · Oxford Nanopore Sequencing
- · Automation and visualization
- Containerization and workflow management

## **WORK EXPERIENCE**

#### Current

## Post-doc & team leader of an associated research group

RNA Bioinformatics/High-Throughput Analysis, Prof. Dr. Manja Marz, University of Jena Supervision of Next-Generation Sequencing (NGS) projects including the automatization of workflows for assembly, annotation, variant calling, differential gene expression, metagenomics, and visualization of results. Development of novel applications for long-read sequencing data. Team leader of an associated bioinformatics group at the University of Jena.

#### 10/2019-04/2020

#### Visiting researcher

EMBL-EBI European Bioinformatics Institute, Dr. Rob Finn, Wellcome Trust Genome Campus, Hinxton, Cambridge, United Kingdom

Working in the research group of Dr. Rob Finn on the analysis and classification of metagenomic samples using Nanopore long-read sequencing data and hybrid approaches.

### since 06/2019

#### nanozoo GmbH

Co-founder and Co-managing director of nanozoo GmbH, Leipzig, Germany

Founded in mid-2019, nanozoo is a bioinformatics start-up providing end-to-end services for the production and analysis of microbial data. *nanozoo* has set itself the goal of removing barriers in bioinformatic data analysis to provide up-to-date standards and analyses to a broad mass of researchers.

## 08/2013-12/2017

## PhD student

RNA Bioinformatics/High-Throughput Analysis, Prof. Dr. Manja Marz, University of Jena Management of various NGS projects comprising 1) experimental design, 2) selection of appropriate sequencing parameters, and 3) data analysis, visualization and interpretation. Development of pipelines for downstream bioinformatical analyses. Examination of (meta-)genomic/transcriptomic data with a special focus on *de novo* assembly, annotation, and identification of differential expressed protein- and non-coding genes. Contributions to the emerging field of virus bioinformatics.

## 09/2009-05/2012

## Student assistant

Chair of Bioinformatics, Prof. Dr. Sebastian Böcker, University of Jena Integration of algorithms, data management and visualization for phylogenetic analyses and clustering.

## PROFESSIONAL MEMBERSHIPS

#### since 01/2020

#### iRTG AquaDiva

Post-doc representative within the "integrated Research Training Group" (iRTG) of the CRC AquaDiva, University of Jena

The iRTG provides a structured training program for training and education open to doctoral and postdoctoral researchers of the CRC AquaDiva. It offers courses that bring together the fields of hydrology, geology, and biogeochemistry with omic technologies and bioinformatics.

#### since 06/2019

#### **BioS**

Member of the external advisory board of the EU project "Digital Skills on Computational Biology for Health Professionals" (www.bios-project.eu)

BioS aims at advancing the digital skills of medical doctors through the design, development and delivery of new modular vocational curricula on Computational Biology & Bioinformatics. As a member of the advisory board I am supporting the project by giving advice on the main outcomes of the project.

#### since 03/2017

#### **EVBC**

Founding member of the "European Virus Bioinformatics Center" (EVBC), University of Jena The EVBC is intended to bring together virologists and bioinformaticians across Europe and provide a platform for interdisciplinary collaborative projects. My expertise covers sequencing, design and high-throughput analysis of virus-enriched and -infected biological samples.

# ORGANIZATION OF CONFERENCES AND WORKSHOPS

#### 11/2019

Workshop: Hands-on Nanopore sequencing: Adventures in metagenomics and antimicrobial resistance

IIT, New Delhi, India

Responsibilitites: Prepared workshop. Co-supervised and assisted students in a one-week practical course on the topic of Nanopore sequencing and metagenomics data analysis.

#### 10/2018

Workshop: Bioinformatics analysis of Nanopore

Doubice, Czech Republic

SEQUENCING DATA: AN INTRODUCTION

Responsibilitites: Co-prepared workshop and assisted students in a two-day practical course on the topic of Nanopore sequencing data analysis.

## 08/2018

Workshop:  $23^{rd}$  International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology (VEME)

RKI, Berlin

Responsibilitites: Supporting organizer. Logistical tasks.

# 05/2017

Hackathon: AGING-RELATED RNA-SEQ DATA ANALYSIS

University of Jena

STAY YOUNG OR DIE TRYING

Responsibilitites: Supporting organizer of this one-week hackathon. Logistical tasks.

## 01/2017

Conference: FIRST MEETING OF THE EUROPEAN VIRUS

University of Jena

**BIOINFORMATICS CENTER** 

Responsibilities: Supporting organizer. Logistical tasks.

#### 04/2014

Hackathon: VIRUS-INFECTED RNA-SEQ DATA ANALYSIS

University of Jena

FIGHT AGAINST EBOLA - IN SILICO

Responsibilitites: Prepared a one-week collaborative workshop as a main organizer and assisted participants in data analysis.

#### FURTHER TASKS BEYOND OWN RESEARCH

## • Sequencing project management

Management of more than 60 Next-Generation Sequencing projects, including the design of experimental set-ups and the definition of sequencing parameters. Calculation of project costs and communication between the wet lab partners and the sequencing facility. Organization of data handling and computational analysis.

#### · Supervision of master theses

- Lisa-Marie Barf, Bioinformatic and in vitro comparison among Chlamydia spp. to elucidate chlamydial host specificity and phylogeny. (completed 06/2019), co-supervised
- Lasse Faber, Effective clustering of de novo transcriptome assemblies. (completed winter 2019)
- Marie Lataretu, Spotting fungal mitogenomes in de novo assemblies of short-read NGS data. (completed summer 2018)
- Ruman Gerst, PCAGO: An interactive web service to analyze RNA-Seq data with principal component analysis. (completed fall 2017)

## · Supervision of practical works

- Anne Muriel Christin Ritsch, *Transcribed endogenous viral elements in Myotis lucifugus*. (completed summer 2019), co-supervised
- Lasse Faber, *Transcripto A Snakemake de novo transcriptome assembly pipeline.* (completed spring 2019)
- Daria Meyer, Endogenous Viral Elements (EVEs). (completed winter 2018), co-supervised

#### Supervision of bachlor theses

- Sandra Triebel, *A comparison of short-read, long-read, and hybrid de novo genome assembly tools for the reconstruction of Mycoplasma bovis strains.* (completed autumn 2019)
- Jannes Spangenberg, *Analysis of host-virus transcriptome data: exploring the unmapped.* (completed autumn 2019), co-supervised
- Rebekka Köhl, RNA-Seq analysis of a transfected human cell line. (started 07/2018)

#### Peer-reviews for international conferences

Annual International Conference on Research in Comp. Molecular Biology (RECOMB 2018), Annual International Conference on Intelligent Systems for Molecular Biology (ISMB 2017), German Conference on Bioinformatics (GCB 2014, 2015, 2017)

#### · Peer-reviews for journals

Nature Communications (2019), Microbiome (2019), Genome Biology (2019), BMC Supplements (2019), Scientific Reports (2019), Frontiers in Microbiology (2019), Virus Research (2018), Molecular Ecology Resources (2018) publons.com/author/1521002

#### **SCHOLARSHIPS**

Jan. 2020 - Jan. 2021	"Google for Education" Google Cloud Platform research credits for cloud calculations for a research proposal	€ 5,000
DEC. 2018 - JAN. 2021	"Add-on Fellowship for Interdisciplinary Life Science" of the Joachim Herz Stiftung, Hamburg, Germany	€ 12,500

## **GRANTS**

#### Amount

under consideration DFG Sachbeihilfe first application

"Reference- and assembly-free identification of differentially expressed isoforms by combining traditional short-read and Nanopore long-read direct RNA sequencing" Applied for € 242,658.00 for staff and € 50,550.00 for direct project costs

2020 - 2025 Thuringian Ministry of Science

"Digitisation of the life sciences: Ways into the future". The University of Jena received €1.35 million to advance the digitization of life sciences. I was jointly responsible for the application and significantly involved in the compilation of the contents and the writing. Co-supervision of work packages and project partner (digleben.uni-jena.de/projektpartner).

DEC. 2018 – MAR 2020 Program of the University of Jena to support junior researchers in obtaining third-party funding  $\in$  9,930

## TEACHING

at the University of Jena

## **Teaching instructor**

2018, 2019	Practical course: Viroinformatics
	Responsibilitites: Prepared, supervised, and assisted students in a two-week practical course on the topic of virus detection from meta-transcriptomic NGS data.
2017, 2017/18	Lecture & Practical course: LETEX BASICS FOR NATURAL SCIENTISTS
2018	Responsibilities: Presented lectures on the document preparation system ETeX. Supervised and assisted 30 undergraduate students in a one-week full-time course. Graded daily assignments, excercises, and exams.
2017/18	Practical course: High-Throughput Bioinformatics
	Responsibilitites: Prepared, supervised, and assisted students in a two-week practical course on the topic of RNA-Seq data analysis.

## **Teaching assistant**

2016/17, 2017/18 Lecture: BASIC BIOINFORMATIC APPLICATIONS 2018/19 Responsibilities: Prepared and taught four 1.5-hour lectures on the topic of highthroughput data analysis and assembly (From raw read data to differential expressed genes). Prepared and supervised practical examples. Graded assignments and course exams. 2014/15, 2015, Lecture: VIRUS BIOINFORMATICS 2016, 2017 Responsibilitites: Developed and taught hour-long lessons on viral replication, assembly, and sequencing. 2014/15, 2015/16, Lecture: HIGH-THROUGHPUT BIOINFORMATICS 2016/17, 2017/18 Responsibilitites: Developed and taught hour-long lessons on sequencing technologies and protocols, Next-Generation Sequencing design, quality control and data processing, de novo and reference-based assembly, read quantification, normalization, and differential gene expression analysis. Practical course: HIGH-THROUGHPUT BIOINFORMATICS 2015/16, 2018/19 Responsibilitites: Prepared, supervised, and assisted students in a one-week practical course on the topic of RNA-Seq data analysis.

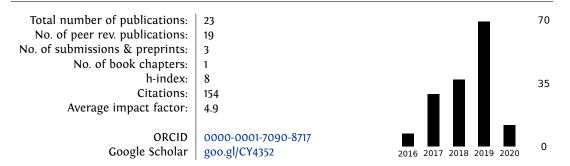
## SCIENTIFIC POSTER PRESENTATIONS

03/2019	3rd annual meeting of the European Virus Bioinformatics Center (EVBC), Glasgow, Scotland
	Virus- and interferon alpha-induced transcriptomes of the microbat Myotis daubentonii.
03/2019	29th Annual Meeting of the Society for Virology, Düsseldorf, Germany
	Virus- and interferon alpha-induced transcriptomes of the microbat Myotis daubentonii.
09/2018	German Conference on Bioinformatics, Vienna, Austria
	Long reads matter: The advantages of nanopore long-read sequencing.
05/2017	Bioinformatics Mittelerde Meeting, Leipzig, Germany
	PoSeiDon: a web server for the detection of evolutionary recombination events and positive selection.
03/2017	27th Annual Meeting of the Society for Virology, Marburg, Germany
·	PoSeiDon: a web server for the detection of evolutionary recombination events and positive selection.
04/2016	26th Annual Meeting of the Society for Virology, Münster, Germany
	A method pipeline for the detection of positively selected sites in silico - exemplar-
	ily shown for bat Mx1.

# SCIENTIFIC ORAL PRESENTATIONS

	slideShare
01/2020	EMBl-EBI research talk, Hinxton, Cambridge, UK
	Nanopore long-read metagenomics: How long reads improve microbial and phage genomes
	from a complex aquifer system
11/2018	BioGeo-Colloquium, Jena, Germany
	The advantages of nanopore sequencing: because long reads matter
11/2018	Institut für Mikrobiologie der Bundeswehr, Munich, Germany
	A short and a long sequencing story about Ebola and Coronaviruses
10/2018	16. Herbstseminar der Bioinformatik, Doubice, Czech Republic
•	Session chair on virus bioinformatics
07/2018	11th International Conference on Virology/Microbiology, Vancouver, Canada
	An Interface between Bioinformatics and Virology (KEYNOTE SPEAKER)
02/2018	33. Winterseminar der Bioinformatik, Bled, Slovenia
	PCAGO: An interactive web service to analyze RNA-Seq data with principal component anal-
	ysis
08/2017	CRC AquaDiva Recruitment Symposium, Jena, Germany
	Next-Generation Sequencing meets viruses
02/2017	32. Winterseminar der Bioinformatik, Bled, Slovenia
	PoSeiDon: A web server for the detection of evolutionary recombination events and positive
	selection
10/2016	14. Herbstseminar der Bioinformatik, Doubice, Czech Republic
	Fun with PCA: Insights into RNA-Seq based principal component analysis
02/2016	31. Winterseminar der Bioinformatik, Bled, Slovenia
	Evolutionary analyses of positively selected sites in the interferon-induced innate immunity
	factor Mx1 of bats
03/2015	25th Annual Meeting of the Society for Virology, Bochum, Germany
	Differential transcriptional responses to Ebola and Marburg virus infection in cells from bats and humans
02/2015	30. Winterseminar der Bioinformatik, Bled, Slovenia
0-1-019	Fight against Ebola – in silico –
	1

# **CITATION ANALYSIS**



## Peer-reviewed journal publications

 $\Psi$  These authors contributed equally

- N. F. Mostajo<sup>Ψ</sup>, M. Lataretu<sup>Ψ</sup>, S. Krautwurst, F. Mock, D. Desirò, K. Lamkiewicz, M. Collatz, A. Schoen, F. Weber, M. Marz<sup>Ψ</sup>, and M. Hölzer<sup>Ψ</sup>. A comprehensive annotation and differential expression analysis of short and long non-coding RNAs in 16 bat genomes. NAR Genomics and Bioinformatics. 2(1):lqz006, 2019.
  IF: na
- A. Viehweger, S. Krautwurst, K. Lamkiewicz, R, Madhugiri, J. Ziebuhr, M. Hölzer, and M. Marz. Direct RNA nanopore sequencing of full-length coronavirus genomes provides novel insights into structural variants and enables modification analysis. *Genome Research*, 2019. IF: 10.1
- 17 **M.** Hölzer<sup>Ψ</sup>, A. Schoen<sup>Ψ</sup>, J. Wulle, MA. Müller, C. Drosten, M. Marz, and F. Weber. Virus- and interferon alpha-induced transcriptomes of cells from the microbat *Myotis daubentonii. iScience* 1:647–661, 2019. **IF: na**
- 16 K. Laroucau, F. Vorimore, R. Aaziz, L. Solmonson, RC. Hsia, PM. Bavoil, P. Fach, M. Hölzer, A. Wuenschmann, and K. Sachse. Chlamydia buteonis, a new Chlamydia species isolated from a red-shouldered hawk. Systematic and Applied Microbiology 2019.
  IF: 3.2
- 15 R. Kallies, M. Hölzer, R. Brizola Toscan, U. Nunes da Rocha, J. Anders, M. Marz, and A. Chatzinotas. Evaluation of sequencing library preparation protocols for viral metagenomic analysis from pristine aquifer groundwaters. *Viruses* 11(6):484, 2019.
- S. Peter, M. Hölzer, K. Lamkiewicz, P. Speroni di Fenizio, HA. Hwaeer, M. Marz, S. Schuster, P. Dittrich, and B. Ibrahim. Structure and hierarchy of influenza virus models revealed by reaction network analysis. Viruses 11(5), 2019.
  IF: 3.7
- M. Hölzer and M. Marz. *De novo* transcriptome assembly: A comprehensive cross-species comparison of short-read RNA-Seq assemblers. *GigaScience* 8(5), 2019. IF: 7.3
- 12 Z. Chen, E. Amro, F. Becker, M. Hölzer, S. Rasa, S. Njeru, B. Han, S. Di Sanzo, Y. Chen, D. Tang, S. Tao, R. Haenold, M. Groth, V. Romanov, J. Kirkpatrick, J. Kraus, H. Kestler, M. Marz, A. Ori, F. Neri, Y. Morita, and K. L. Rudolph. Cohesin-mediated NF-κB signaling limits hematopoietic stem cell self-renewal in aging and inflammation. J. Exp. Med. 216(1):152–175, 2018.
  IF: 10.8
- 11 D. Desirò, M. Hölzer, B. Ibrahim, and M. Marz. SilentMutations (SIM): a tool for analyzing long-range RNA-RNA interactions in viral genomes and structured RNAs. *Virus Res.*, 2018. IF: 2.5
- D. Steinbach, M. Hölzer, M. Marz, M. Gajda, F. C. Von Rundstedt, and M. O. Grimm. Analysis of molecular mechanism of progression of non-muscle-invasive bladder cancer (NMIBC) by genome-wide exome and UTR mutation analysis. *Eur Urol Suppl.* 17(2):e1523, 2018.
- 9 P. Möbius, G. Nordsiek, M. Hölzer, M. Jarek, M. Marz, and H. Köhler. Complete Genome Sequence of JII-1961, a Bovine Mycobacterium avium subsp. paratuberculosis Field Isolate from Germany. Genome Announc. 5(34), 2017.
  IF: 1.2
- J. Fuchs, M. Hölzer, M. Schilling, C. Patzina, A. Schoen, T. Hoenen, G. Zimmer, M. Marz, F. Weber, M. A. Müller, and G. Kochs. Evolution and Antiviral Specificities of Interferon-Induced Mx Proteins of Bats against Ebola, Influenza, and Other RNA Viruses. J Virol. 12; 91(15), 2017.
  IF: 4.7

- P. Möbius, E. Liebler-Tenorio, M. Hölzer, and H. Koehler. Evaluation of associations between genotypes of *Mycobacterium avium* subsp. *paratuberculsis* and presence of intestinal lesions characteristic of paratuberculosis. *Veterinary microbiology.* 201:188-194, 2017.
- K. Riege $^{\Psi}$ , M. Hölzer $^{\Psi}$ , T. Klassert, E. Barth, J. Bräuer, M. Collatz, F. Hufsky, N. Mostajo, M. Stock, B. Vogel, H. Slevogt, and M. Marz. Massive Effect on LncRNAs in Human Monocytes During Fungal and Bacterial Infections and in Response to Vitamins A and D. *Sci Rep.* 7:40598, 2017.
- 5 T. E. Klassert, J. Bräuer, M. Hölzer, M. Stock, K. Riege, C. Zubiría-Barrera, M. M. Müller, S. Rummler, C. Skerka, M. Marz, and H. Slevogt. Differential Effects of Vitamins A and D on the Transcriptional Landscape of Human Monocytes during Infection. *Sci Rep.* 7:40599, 2017.
- M. Hölzer<sup>Ψ</sup>, V. Krähling<sup>Ψ</sup>, F. Amman, E. Barth, S. H. Bernhart, V. A. O. Carmelo, M. Collatz, G. Doose, F. Eggenhofer, J. Ewald, J. Fallmann, L. M. Feldhahn, M. Fricke, J. Gebauer, A. J. Gruber, F. Hufsky, H. Indrischek, S. Kanton, J. Linde, N. M. Berrospi, R. Ochsenreiter, K. Rieger, L. Rivarola-Duarte, A. H. Sahyoun, S. J. Saunders, S. E. Seemann, A. Tanzer, B. Vogel, S. Wehner, M. T. Wolfinger, R. Backofen, J. Gorodkin, I. Grosse, I. Hofacker, S. Hoffmann, C. Kaleta, P. F. Stadler, S. Becker, and M. Marz. Differential transcriptional responses to Ebola and Marburg virus infection in bat and human cells. *Sci Rep.* 6:34589, 2016.
- 3 M. Hölzer, K. Laroucau, H. H. Creasy, S. Ott, F. Vorimore, P. M. Bavoil, M. Marz, and K. Sachse. Whole-genome sequence of *Chlamydia gallinacea* type strain 08-1274/3. *Genome Announc.* 4(4):e00708-16, 2016.
- P. Möbius $^{\Psi}$ , M. Hölzer $^{\Psi}$ , M. Felder, G. Nordsiek, M. Groth, H. Köhler, K. Reichwald, M. Platzer, and M. Marz. Comprehensive insights in the *Mycobacterium avium* subsp. *paratuberculosis* genome using new WGS data of sheep strain JIII-386 from Germany. *Genome Biol Evol.* 7(9):2585-2601, 2015. IF: 3.9
- A. H. Sahyoun, M. Hölzer, F. Jühling, C. Höner Zu Siederdissen, M. Al-Arab, K. Tout, M. Marz, M. Middendorf, P. F. Stadler, and M. Bernt. Towards a comprehensive picture of alloacceptor tRNA remolding in metazoan mitochondrial genomes. *Nucleic Acids Res.* 43(16):8044–8056, 2015. IF: 11.5

## Submitted journal publications & preprints

R. Van Damme, **M. Hölzer**, A. Viehweger, M. Bettina, E. Bongcam-Rudloff, C. Brandt. Metagenomics workflow for hybrid assembly, differential coverage binning, transcriptomics and pathway analysis (MUFFIN). *bioRxiv.* 10.1101/2020.02.08.939843v1, 2020.

W. A. Overholt, **M. Hölzer**, P. Geesink, C. Diezel, M. Marz, and K. Küsel. Inclusion of Oxford Nanopore long reads improves all microbial and phage metagenome-assembled genomes from a complex aquifer system. *bioRxiv*. 10.1101/2019.12.18.880807v1, 2019.

A. Viehweger, M. Hölzer, and C. Brandt. Addressing dereplication crisis: Taxonomy-free reduction of massive genome collections using embeddings of protein content. *bioRxiv.* 10.1101/855262v2, 2019.

R. Gerst and M. Hölzer. PCAGO: An interactive web service to analyze RNA-Seq data with principal component analysis. *bioRxiv*. doi.org/10.1101/433078, 2018.

## **Book chapter**

M. Hölzer and M. Marz. Chapter Nine – Software Dedicated to Virus Sequence Analysis "Bioinformatics Goes Viral". Adv Virus Res. (ed. M. Beer), 99:233-257, Academic Press, 2017.

## **Theses**

**M.** Hölzer. The Dark Art of Next-Generation Sequencing: fundamental approaches for genomics, transcriptomics, and differential gene expression. *PhD thesis*, University of Jena, 2018.

**M. Hölzer**. Data management of mass spectra and fragmentation trees with BExIS. *Diploma thesis*, in German, University of Jena, 2012.

# **SOFT SKILLS**

06/2019	Managing a Bioinformatics Core Facility, European Bioinformatics Institute (EMBL-EBI),
07/2019	Hinxton, UK
07/2018	Fördermöglichkeiten für exzellente Nachwuchswissenschaftler/innen, Dr. Mareile Knees, Jena
05/2018	Workshop "Drittmittel einwerben", Jana Dümmler, Graduate Academy, Jena
	Patente als Chance für meine Forschung, Dr. Christian Liutik, Patentinformationszen-
02/2018	trum FSU, Jena
02/2018	Pursuing an Academic Career in Germany: Pros and Cons, Dr. Hanna Kauhaus, Graduate Academy, Jena
02/2018	Proposal Writing Workshop, Frank Lauterbach, iRTG AquaDiva, Jena
03/2014	Mitteldeutscher Fundraisingtag, Crowdfunding: Chancen und Grenzen, FundraisingForum e.V., Jena
04/2013	Jugendgruppenleiter Card (JuLeiCa), nationwide uniform identity card for voluntary people in youth work, VTPV e.V., Bad Blankenburg
03/2012	Mitteldeutscher Fundraisingtag, Fundraising und Freiwillige: wie passt das zusammen?
<i>'</i>	FundraisingForum e.V., Jena
09/2010	Web 2.0 - für Vereine, Initiativen & Parteien, Thomas Mergen, Friedrich-Naumann-
	Stiftung für die Freiheit, Erfurt
since 2002	Various workshops, seminars, and advanced trainings about time and group management, group dynamics, self-motivation, project planning, association and employment law, speech, presentation, administration, and building management.

# Non-scientific Leadership Experiences & Activities

# Scout association "Bund der Pfadfinderinnen und Pfadfinder" (BdP)

since 2019	Management board member of "VTPV" registered society	
	Administrative tasks and representation of the scout activities in Thuringia.	
since 2012	Management board member of "Scoutactive" registered society	
	Administrative tasks and writing of proposals for staff funding.	
since 2008	Assistant manager of BdP scouting center of Thuringia	
	Administrative tasks, coordination of staff and volunteers, realization of adventure activities for kids and youths, technical support, web site and hardware supervision.	
since 2007	Assistant leader of BdP "Landesverband Thüringen e.V."	
	Organization of activities in Thuringia and across national borders. Organized events and elections.	
2005-2015	Group leader of BdP scout tribe "Falken vom Greifenstein"	
	Administration of the association. Management of scout camps, international cooperations, regular meetings. Represented the association at national and international events.	
since 1998	Member of BdP	
Water of Life		
2019/20	Member of the Cambridge University Whisky Appreciation Society	
since 2017	Co-Founder and organizer of the Bad Blankenburger "Kessel-Treffen"	
	Coordination of Scottish events and whisky tastings, kessel-treffen.de.	
since 2014	Whisky tastings	
	Preparation and execution of whisky tastings for beginner and advanced	
Music		

since 1999 | Piano

## LANGUAGES

German Native language

English Written and spoken fluently

## REFERENCES

#### Prof. Dr. Manja Marz

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#### Dr. Konrad K. W. Sachse

1992–2015 Head of Department Friedrich Loeffler Institute Institute of Molecular Pathogenesis Germany, Jena, Thuringia since 2016 RNA Bioinformatics and High-Throughput Analysis Friedrich Schiller University Jena

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#### Prof. Dr. Friedemann Weber

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