



# Dr. Daniel Wiegreffe

## Curriculum Vitae

### Personal Information

Fullname Daniel Wiegreffe  
Born Name Gerighausen  
Date of Birth 14.10.1989  
Place of Birth Lingen (Ems)  
Adress Image and Signal Processing Group  
Institut für Informatik  
Augustusplatz 10  
04109 Leipzig  
Email daniel@informatik.uni-leipzig.de  
Nationality German  
Civil Status Married, three children

### Education

- 06/2019 **Dr. rer. nat., Computer Science,**  
*Universität Leipzig,*  
Thesis Title: Visual Analysis of Form and Function in Computational Biology,  
Supervisor: Prof. Scheuermann.
- 03/2015 **Master of Science, Computer Science,**  
*Universität Leipzig,*  
Thesis Title: TiBi-3D - a Guide through the World of Epigenetics,  
Supervisor: Prof. Scheuermann, Prof. Prohaska.
- 10/2013 – **Study of Master of Science, Computer Science,**  
03/2015 *Universität Leipzig.*
- 09/2013 **Bachelor of Science, Computer Science,**  
*Universität Leipzig,*  
Thesis Title: Kombination von K-means++ Clustering und PCA zur Analyse von Chromatin-Daten,  
Supervisor: Prof. Scheuermann.
- 10/2009 – **Study of Bachelor of Science, Computer Science,**  
09/2013 *Universität Leipzig.*

08/2002 – **Gymnasium, Johanneum,**  
06/2009 Lingen(Ems),  
Gained university entrance qualification.

## Professional Experience

- since 08/2018 **Project Coordinator,**  
*Universität Leipzig,*  
Coordination of the EFRE project 'Data Mining and Value Creation'.
- since 04/2015 **Scientific Research Assistant/PhD student,**  
*Universität Leipzig,*  
Developing new visualizations for Big Data from biological sources.
- since 8/2013 **Associate,**  
*Gurkware GbR,*  
Development and marketing of software solutions.
- 4/2013 – **Student Assistant,**  
12/2014 *Universität Leipzig,*  
Assistance in the 'ChromatinVis' project,  
Supervisor: Prof. Scheuermann, Prof. J. Prohaska, Dr. Zeckzer.
- 10/2012 – **Student Assistant,**  
02/2013 *Universität Leipzig,*  
'Grundlagen der Informatik und Numerik',  
Supervisor: Dr. Meiler.
- 09/2012 – **Student Assistant,**  
09/2012 *Universität Leipzig,*  
Remedial course 'c programming',  
Supervisor: Dr. Meiler.
- 05/2012 – **Student Assistant,**  
07/2012 *Universität Leipzig,*  
'Objektorientiertes Programmieren Praktikum',  
Supervisor: Dr. Meiler.
- 05/2010 – **IT Administrator,**  
04/2012 *Lawyer Füßer und Kollegen.*

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## Publications and Conferences

- 2018 **Summary Paper**, *Big Data Competence Center ScaDS Dresden/Leipzig: Overview and selected research activities*, Rahm, Nagel, Peukert, Jäkel, Gärtner, Wiegrefe, Zeckzer, Lehner, Datenbanken-Spektrum.
- 2018 **Method Paper**, *RNApuzzler: Efficient Outerplanar Drawing of RNA-Secondary Structures*, Wiegrefe, Alexander, Stadler, Zeckzer, Oxford Bioinformatics.
- 2018 **Research Note**, *The Sierra Platinum Service for generating peak-calls for replicated ChIP-seq experiments*, Wiegrefe, Müller, Steuck, Zeckzer, Stadler, BMC Research Notes.
- 2018 **Application Paper**, *Analyzing Histone Modifications Using Tiled Binned Clustering and 3D Scatter Plots*, Zeckzer, Wiegrefe, Müller, WSCG 2018 - Pilsen.
- 2018 **Conference Talk**, *Introduction of the Supergenome Browser*, 33rd TBI Winterseminar in Bled(Slovenia).
- 2017 **Conference Talk**, *RNApuzzler IV*, 15th Bioinf Herbstseminar in Doubice(Czech republic).
- 2017 **Application Paper**, *iDotter - an interactive dot plot viewer*, Gerighausen, Hausdorf, Zänker, Zeckzer, WSCG 2017 - Pilsen.
- 2016 **Conference Talk**, *Analyzing Histone Modifications in iPS Cells Using Tiled Binned 3D Scatter Plots*, Zeckzer, Gerighausen, Müller, BDVA 2016 - Sydney.
- 2016 **Method Paper**, *Sierra platinum: a fast and robust peak-caller for replicated ChIP-seq experiments with visual quality-control and -steering*, Müller, Gerighausen, Farman, Zeckzer, BMC Bioinformatics.
- 2016 **Conference Talk**, *RNApuzzler II*, 31st TBI Winterseminar in Bled(Slovenia).
- 2016 **Research Paper**, *A consensus network of gene regulatory factors in the human frontal lobe*, Berto, Perdomo-Sebogal, Gerighausen, Qin, Nowick, Frontiers in Genetics.
- 2015 **Conference Talk**, *RNApuzzler*, 13th Bioinf Herbstseminar in Doubice(Czech republic).
- 2014 **Conference Talk**, *iDotter - An interactive dotplot viewer*, 12th Bioinf Herbstseminar in Doubice(Czech republic).
- 2014 **Shortpaper**, *Using Significant Word Co-occurrences for the Lexical Access Problem*, Feist, Gerighausen, Konrad, Richter, Eckart, Goldhahn, Quasthoff, CogAlex Workshop 2014.
- 2014 **Method Paper**, *Analyzing Chromatin Using Tiled Binned Scatterplot Matrices*, Zeckzer, Gerighausen, Steiner, J. Prohaska, BioVis 2014 – Boston.
- 2014 **Poster**, *ChromatinVis: a tool for analyzing epigenetic data*, Gerighausen, Zeckzer, Steiner, J. Prohaska, at Vizbi 2014 - Heidelberg.
- 2014 **Conference Talk**, *Clustering to the power of 2*, Application of clustering algorithms on epigenetic data, 29th TBI Winterseminar in Bled(Slovenia).
- 2013 **Conference Talk**, *New visualizations of chromatin data*, 11th Bioinf Herbstseminar in Doubice(Czech republic).

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## Programming skills

**Java, R, C, C++, and Perl**  
**Android development, HTML, and CSS**  
**extensive Linux and bash skills**

## Qualifications

**Basic certificate in project management (GPM)**

## Languages

**German**

**English**

## Special Commitments

4/2013 – **Member of the student union of Computer Science in Leipzig.**  
04/2014

10/2013 – **Member of the faculty council of Mathematics and Computer Science in Leipzig.**  
09/2022

Leipzig, September 2, 2019 – Daniel Wiegrefe