

andreasbremges

ph.d. student in bioinformatics: metagenomics & single cell genomics

personal

born May 10th, 1985
2 children aged 1 and 4

contact

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languages

native German
fluent English
basic Finnish

programming

C, Java, Perl, R
Unix, Grid Engine
Git, Travis CI
L^AT_EX

education

- 2003–2005 **Associate Engineer** in Automation Technology Siemens AG, Düsseldorf
Average: **1.6**, Practical: **1.0**
- 2005–2008 **Bachelor** of Science, **Bioinformatics and Genome Research** Bielefeld University
Fine-tuning structural RNA alignments in the twilight zone
Average: **1.6**, Thesis: **1.0**
- 2008–2011 **Master** of Science, **Bioinformatics and Genome Research** Bielefeld University
Predicting the structural impact of single nucleotide polymorphisms on RNA transcripts in human
Average: **1.4**, Thesis: **1.0**
- 2010 **Erasmus Programme** University of Helsinki
Master's Degree Programme in Bioinformatics
- 2011–Now **Ph.D. Candidate, Bioinformatics** Bielefeld University
The yin and yang of metagenomics and single cell genomics
First Ph.D. student in Alex Sczyrba's group (Computational Metagenomics)

experience

- 2005 **Software Developer** Siemens Rail Systems, Krefeld
6 months internship, programming in C and Assembly language
- 2007–2009 **Teaching Assistant** Bielefeld University
Algorithms & Data Structures, Programming in Java, Project Development
- 2009–2010 **Research Assistant** Bielefeld University
Member of Robert Giegerich's group (Practical Computer Science)
- 2012–Now **Affiliate Scientist** DOE Joint Genome Institute, Walnut Creek
Hosted by Zhong Wang (Genome Analysis), visited twice for ~3 weeks each

awards

- 2011 **Ph.D. Scholarship** Bielefeld University
CLIB Graduate Cluster Industrial Biotechnology
- 2012 **Best Talk Award** University of Bergen
Bioinformatics Research and Education Workshop

interests

professional: sequencing technologies, data analysis, software development, bioinformatics best practices, information visualization **personal:** quality time with family and friends, audio & hi-fi, bodyweight exercises, single malt scotch whisky

communication skills

2008–2009	Moderation International 3 semesters of moderation training in English	Bielefeld University
2012	Bioinformatics Research and Education Workshop Talk and “paper”	University of Bergen
2012–2014	Annual Retreats within the CLIB Graduate Cluster 3 poster presentations, 1 talk	Bielefeld, Dortmund, Düsseldorf
2014	Presenting Data and Information & See, Think, Design, Produce Edward Tufte with Jonathan Corum, Maria Popova, Randall Munroe	Seattle
	Wellcome Trust Genome Informatics 2014 Poster presentation	Churchill College, Cambridge
	German Conference on Bioinformatics Poster presentation	Bielefeld University

publications

2010	Fine-tuning structural RNA alignments in the twilight zone Bremges, A* , Schirmer, S*, Giegerich, R	BMC Bioinformatics
2013	A silent exonic SNP in kdm3a affects nucleic acids structure but does not regulate experimental autoimmune encephalomyelitis Gillett, A, Bergman, P, Parsa, R, Bremges, A , Giegerich, R, Jagodic, M	PLOS ONE
2014	Complete genome sequence of the cyanide-degrading bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344 Wibberg, D, Luque-Almagro, VM, Igeño, MI, Bremges, A , Roldán, MD, Merchán, F, Sáez, LP, Guijo, MI, Manso, MI, Macías, D, Cabello, P, Becerra, G, Ibáñez, MI, Carmona, MI, Escibano, MM, Castillo, F, Sczyrba, A, Moreno-Vivián, C, Blasco, R, Pühler, A, Schlüter, A	Journal of Biotechnology
Future	The metagenome of a biogas-producing microbial community from a production-scale biogas plant Bremges, A , Maus, I, Pühler, A, Schlüter, A, Sczyrba, A	In preparation
	Updating the <i>Pseudomonas pseudoalcaligenes</i> CECT5344 genome by SMRT sequencing and establishment of the methylome Wibberg, D*, Bremges, A* , Dammann-Kalinowski, T, Sczyrba, A, Blasco, R, Pühler, A, Schlüter, A	In preparation
	Metagenomic proxy assemblies of single cell genomes Bremges, A , Jarett, J, Woyke, T, Sczyrba, A	In preparation