

andreasbremges

computational biology of infection research

personal

born May 10th, 1985
2 children aged 2 and 5

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 Average: 1.6 , Practical: 1.0	Siemens AG, Düsseldorf
2005–2008	Bachelor of Science, Bioinformatics and Genome Research Average: 1.6 , Thesis: 1.0	Bielefeld University
2008–2011	Master of Science, Bioinformatics and Genome Research Average: 1.4 , Thesis: 1.0	Bielefeld University
2010	Erasmus Programme Master's Degree Programme in Bioinformatics	University of Helsinki
2011–Now	Ph.D. Candidate , Bioinformatics Alex Sczyrba's group: Computational Metagenomics	Bielefeld University
2015–Now	DZIF Software Developer Alice McHardy's group: Computational Biology of Infection Research	Helmholtz Centre for Infection Research
2016–	Postdoctoral Researcher Alice McHardy's group: Computational Biology of Infection Research	Helmholtz Centre for Infection Research

experience

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

awards

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

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
2015	Bioinformatics for amplicon and shotgun metagenome analysis Workshop co-organizer & lecturer	HZI Braunschweig
	NGS data processing and variant calling with GATK Workshop organizer & lecturer	HZI Braunschweig

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
2015	Fractionation of biogas plant sludge material improves metaproteomic characterization to investigate metabolic activity of microbial communities Kohrs, F, Wolter, S, Benndorf, D, Heyer, R, Hoffmann, M, Rapp, E, Bremges, A , Sczyrba, A, Schlüter, A, Reichl, U	Proteomics
	Deeply sequenced metagenome and metatranscriptome of a biogas-producing microbial community from an agricultural production-scale biogas plant Bremges, A , Maus, I, Belmann, P, Eikmeyer, FG, Winkler, A, Albersmeier, A, Pühler, A, Schlüter, A, Sczyrba, A	GigaScience
In press	Bioboxes: standardised containers for interchangeable bioinformatics software Belmann, P, Dröge, J, Bremges, A , McHardy, AC, Sczyrba, A, Barton, MD	
Submitted	Genomic characterization of <i>DeFluviitoga tunisiensis</i> L3, a key hydrolytic bacterium originating from a thermophilic production-scale biogas plant Maus, I, Cibis KG, Bremges, A , Stolze, Y, Wibberg, D, Tomazetto, G, Blom, J, Sczyrba, A, König, H, Pühler, A, Schlüter, A	
In preparation	Metagenomic proxy assemblies of single cell genomes Bremges, A , Jarett, J, Woyke, T, Sczyrba, A corsage: Metagenome-enabled error correction of single cell sequencing reads Bremges, A , Singer, E, Woyke, T, Sczyrba, A	