

	A	B	C	D	E	F
1	Thesis projects for bioinformatics students: Bachelor (BA), Master (MA), Research internships (FoPra)					
2						
3	Working group/Institut (Link)	Range of Topics	BA, MA, FoPra?	Contact (Name, E-Mail)	Notes	
4	Independent Max Planck Research Group " <i>Biosocial Biology, Social Disparities, and Development</i> "/ Max Planck Institute for Human Development (https://www.mpib-berlin.mpg.de/research/research-groups/mprg-biosocial)	Applying omics research to social science research on health and education inequality; genome-wide DNA methylation machine learning; genome-wide association studies; polygenic scores	BA, MA, FoPra	raffington@mpib-berlin.mpg.de	Lots of research opportunities	
5	Molecular Ecology (AG Monaghan) Leibniz-IGB and FU BCP https://www.igb-berlin.de/en/profile/michael-t-monaghan	Molecular ecology, environmental genomics, bio-monitoring in lakes and rivers with eDNA	MA, FoPra	m.monaghan@fu-berlin.de		
6	Bioinformatics Solution Center / Inst. Mathe-Informatik; www.bsc.fu-berlin.de , Sandro Andreotti, Chris Bielow	Sequencing und Proteomik; Qualitätskontrolle von Hochdurchsatzdaten	BA, MA, FoPra, BerPra	info@bsc.fu-berlin.de		
7	Bioinformatics in Medicine / Zuse Institute Berlin	Machine learning for analysis of omics data; network-based data integration; mathematical modelling	BA, MA, FoPra	conrad@zib.de		
8	AI in Life Sciences (AG Eils), Digital Health Center, Berlin Institute of Health at Charité, https://www.hidih.org/research/aislab	Health data, disease risk modeling, treatment recommendation, machine learning	BA, MA, FoPra	alexandra.friedrich@bih-charite.de		
9	Algorithmische Bioinformatik (AG Reinert), FU, Institut für Informatik, http://www.mi.fu-berlin.de/en/inf/groups/abi/	(www.seqan.de), algorithms for the analysis of HPLC/MS proteomics data (www.openms.de); other topics are possible; cf. https://wikis.fu-berlin.de/display/abi/BSc+and+MSc+Topics	BA, MA, FoPra	knut.reinert@fu-berlin.de		
10	Referat S.3 eScience, Bundesanstalt für Materialforschung und prüfung berlin.de/en/pharmazie/faecher/pharmazeutische_chemie/wolber/index.html ; https://drug-design.de	Algorithms and software development for mass spectrometry-based applications (proteomics, metaproteomics, metabolomics, chemistry); research data management; machine learning	BA, MA, FoPra	thilo.muth@bam.de		
11	Mathematik, https://www.mi.fu-berlin.de/en/math/groups/dibimath/index.html	Eigenschaften von kleinen organischen Molekülen, Data mining & machine learning	BA, MA, FoPra	gerhard.wolber@fu-berlin.de	FU web page	
12		Mathematical modeling, molecular networks, discrete methods for system and data analysis	BA, MA, FoPra	siebert@mi.fu-berlin.de		
13	AG Nowick (Human Biology and Primate Evolution): http://www.nowick-lab.info	Comparison of genome and transcriptome data with focus on evolution, brain and gene regulation	BA, MA, FoPra	katja.nowick@fu-berlin.de		
14	AG Volkamer, in silico Toxicology and Structural Bioinformatics, https://volkamerlab.org/	Method development and application in the field of CADD and risk assessment (usually Python based).	BA, MA, FoPra	andrea.volkamer@charite.de	Currently full supervision capacity reached, please contact us only if you look for sth in mid 2022!	

	A	B	C	D	E	F
15	AG Szulcek, In vitro modeling systems of pulmonary diseases	Project on natural language processing in scientific literature.	MA, FoPra	robert.szulcek@charite.de		
16	AG Konietschke; Institut für Biometrie und klinische Epidemiologie. www.biometrie-charite.de	Statistical Methods, Resampling Methods, High-Dimensional Data Analysis	MA, FoPra	frank.konietschke@charite.de		
17	AG Bockmayr, Mathematics in Life Sciences, http://www.mi-fu-berlin.de/en/math/groups/mathlife/	Computational systems biology, constraint-based and optimisation-based methods for metabolic and regulatory networks	BA, MA, FoPra	Alexander.Bockmayr@fu-berlin.de		
18	www.mi-fu-berlin.de/en/chemie/biochemie/research-groups/stricker-group/index.html	OMICS Datensätzen aus z.B. RNA-Seq oder Histone profiling Experimenten	MA, Ma	sigmar.stricker@fu-berlin.de		
19	www.mi-fu-berlin.de/en/pharmazie/faecher/pharmazeutische_chemie/wolber/index.html ; https://drug-design.de					
20	Michael Grünstäudl (PostDoc, prüfungsberechtigt für Bachelor- und Masterarbeiten); https://blogs.fu-berlin.de/gruenstaeudl/	Bioinformatic method development and application in plastid phylogenomics (plastid genome assembly and annotation, phylogenetic inferences, large-scale data mining of DNA sequences)	BA, MA, FoPra	m.gruenstaeudl@fu-berlin.de		
21	AG Keller, Computational and Theoretical Chemistry, http://www.chemie.fu-berlin.de/keller	Molecular-dynamics simulations, kinetic models	BA, MA, FoPra	bettina.keller@fu-berlin.de		
22	Institute of Health at Charité, https://www.bihealth.org/en/research/research-group/conrad-lab-intelligent-imaging	single cell sequencing, spatial transcriptomics, high content screening, machine learning	BA, MA, FoPra	christian.conrad@bih-charite.de		
23	Department of Computational Molecular Biology MPI Molecular Biology	Transcriptional Regulation, Single-cell transcriptomics, Proteomics	BA, MA, FoPra	klimm@molgen.mpg.de		
24	Bioinformatics Unit (MF1), Robert Koch Institute, https://www.rki.de/DE/Content/Forsch/Forschungsmethoden/Bioinformatik/Bioinformatik.html .	Group working on the Statistical and Bioinformatic analysis of sequencing/omics data, with a focus on: * bioinformatics workflow management systems, real-time nanopore sequencing (or real-time pathogen detection) (HoelzerM) * Machine Learning and Statistics, outbreak detection and pathogen evolution (RichardH) * Genomic surveillance of pathogens (FuchsS). cf https://rki-mf1.github.io/projects/	BA, MA, FoPra	{RichardH,FuchS,HoelzerM}@rki.de		
25	AG Computational Medicine, BIH@Charité Berlin https://www.bihealth.org/en/research/research-group/computational-medicine	Data-Science for Metabolic and Population Health	BA, MA, FoPra	maik.pietzner@bih-charite.de		
26	AG Mathematical Modelling of Cellular Processes (Wolf lab), MDC Berlin & FU Berlin, https://www.mdc-berlin.de/wolf	Computational Systems Biology and System Medicine, computational modeling, data analysis	MA, FoPra	jana.wolf@mdc-berlin.de		