## PHILIPP BAYER, PHD

## COMPUTATIONAL BIOLOGY & AI

CONTACT	PROFILE	
0435 626 108	I work at the intersection of artificial intelligence, large-scale data science, and computational biology. I focus on building trustable, interpretable AI that lets government agencies and the public understand complex biological data.	
philippbay@gmail.com		
LinkedIn profile, Github profile	I have delivered over 40 presentations ranging from local data meetups to international research conferences. I am one of the top researchers in my field with more than 150 publications that have been cited by other researchers more than 10,000 times.	
35B Archdeacon Street, Nedlands WA		
SKILLS	WORK EXPERIENCE	
Proficient in Python and R and building ML-based solutions	Principal, Research Computational Biology	
Ten years of research and academic	Minderoo, OceanOmics	2022-2023
leadership	Making eDNA-based results reliable and trustable for gover	
Highly developed communication skills	<ul> <li>Building Al-based tools to let government officials and the punderstand OceanOmics-generated data and insights</li> </ul>	public help to
Leader in reproducible research	<ul> <li>Training AI to reliably identify fish in eDNA data by curating OceanOmics datasets</li> </ul>	public and
	Contributing expertise to Minderoo Data & Insights	
EDUCATION	DECRA Fellow	
PhD, Applied Bioinformatics	University of Western Australia	2021-2022
University of Queensland	One of 200 successful yearly applicants in Australia     Uning interpretable machine learning to identify what drives	gone high and gone
2012-2016	<ul> <li>Using interpretable machine learning to identify what drives gene birth and gene death in plants</li> </ul>	
Novel applications of genotyping by	<ul> <li>Working closely with industry to establish Al-based method and yield prediction</li> </ul>	s in plant breeding
sequencing in plant breeding	Member, Scientific Advisory Panel UWA Data Institute	
Master, IT	Forrest Fellow	
Bond University	University of Western Australia	2017-2020
2010-2012	One of three first-ever Forrest Fellows chosen out of more to	than 400 applicants
BSc, Biology	Independent grant to establish postdoctoral studies	
University of Münster	<ul> <li>Using Al in plant pangenomics to identify highly variable gene regions in plants</li> <li>Two grants (\$829,000) with Grains Research Development Corporations to</li> </ul>	
2006-2009	develop better plant breeding methods using image-based	Al and genomics
	Postdoctoral researcher	
LANGUAGES	University of Western Australia	2015-2017
German		omes to identify
English —	<ul> <li>Working on plant pangenomics, analysing &gt;1000 plant genomes to identify variable genes</li> </ul>	

researchers

Japanese -

Established Hacky Hour, UWA-wide data and coding community
Became a certified Carpentries instructor to lead coding workshops for