philippbayer

bioinformatician

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languages

German: mother tongue English: fluent French & Japanese: advanced

programming

Python Go, Perl, Bash, Java Ruby on Rails, HTML

education

2012-current **PhD** Applied Bioinformatics

University of Queensland, Brisbane

Working in the applied bioinformatics group on the use of genotyping by sequencing

to improve the genome assembly of canola

2010-2012 Master of IT

Graduated with Honours

2006-2009 **Bachelor of Science** Biology

Thesis: Analysis of splicing in two populations of marine plants using bioinformatic

approaches

experience

2013-Now **Software Carpentry instructor**

Australia

Certified Software Carpentry instructor. Software Carpentry is a Mozilla/Alfred P. Sloan Foundation funded non-profit organization which teaches best programming practices (Python, reproducible research, version control etc.) in bootcamps to sci-

entists around the world

2012-2012 **Research exchange** at Bayer CropScience

For 4 weeks, worked on the assembly of the *Brassica napus* genome. Learned to work

in a corporate science environment

2011-Now Co-founder openSNP.org

A project for costumers of genotyping companies like 23andMe to share their data with scientists around the world, for free. Initiated the project with Bastian Greshake Responsibilities:

- · Wrote and still maintain the site's Ruby on Rails code-base
- Interact with the community of 800-1500 users
- System administration of the site's server

awards

2011-2014 **Postgraduate Scholarship** University of Queensland

Working on genotyping by sequencing

2012 First place in PLOS/Mendeley Binary Challenge Won with openSNP.org

Won first price in a competition aimed towards the advancement of open science

2009-2011 **Master IT**

5x Top of class, 3x Vice-Chancellor's List for Academic Excellence, 1x IT Award Academic Excellence. Graduated with honours. Recipient of John Oglethorpe Medal for

highest GPA of all IT students graduating that semester

communication skills

2013 **Poster** Plant and animal genome conference, San Diego

Genome Assembly Validation and Trait Association using Skim Based Genotyping by

Sequencing in Canola

2013–2014 Software Carpentry

Assisted Software Carpentry bootcamp in Adelaide, taught basic to intermediate Python as well as documentation and assisted at bootcamp in Melbourne. Currently

Adelaide/Melbourne

organizing a bootcamp in Brisbane in July 2014.

2012 **Presentation** 28th Chaos Communication Congress, Berlin

Presented the work on openSNP, talked about the future of personal genomics and

privacy implications

2009–2011 **Tutoring** Bond University

Tutored students in Intro to Programming (Java), Database Management (Oracle/MySQL) and Networks & Applications, held several all-day refresher courses be-

fore exams

interests

professional: genotyping by sequencing, genome refinement, programming languages, machine

learning, teaching

personal: literature, running, travel

publications

articles in peer-reviewed journals

High-resolution molecular karyotyping uncovers pairing between ancestrally related Brassica chromosomes.

Annaliese S. Mason, Jacqueline Batley, Philipp Emanuel Bayer, Alice Hayward, Wallace A. Cowling, Matthew N. Nelson

New Phytol (Jan. 2014). 2014

Acclimation to different depths by the marine angiosperm Posidonia oceanica: transcriptomic and proteomic profiles.

Emanuela Dattolo, Jenny Gu, Philipp E. Bayer, Silvia Mazzuca, Ilia A. Serra, Antonia Spadafora, Letizia Bernardo, Lucia Natali, Andrea Cavallini, Gabriele Procaccini

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