



# Paul Sabourenkov

COMPUTATIONAL BIOLOGIST

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MBioinf(Adv), BSc(Hons)Psych, BSc(Hons)CompSci, Assoc.MAPS

## Education

### University of Queensland

St Lucia, Queensland

M.BIOINFORMATICS (ADVANCED)

2015

- research into cancer genomics using interaction network analysis to identify novel drug targets in medulloblastoma
- supervised by Dr. Melissa Davis
- at Prof. Brandon Wainwright group at the Institute for Molecular Bioscience, UQ

### University of Tasmania

Hobart, Tasmania

B.Sc. (HONOURS) PSYCHOLOGY

2009

- research into effect of cognitive processes on cortical plasticity with respect to human motor control and post-stroke rehabilitation
- human neuroscience focus
- advanced topics in bioethics, theoretical controversies, clinical psychology, research methods and statistics

### University of Tasmania and Monash

Hobart, Tasmania

GRAD. DIP. SC. PSYCHOLOGY

2008

- Australian Psychological Society accredited
- focus on clinical, social, and developmental psychology, and psychological testing as well as neuroscience
- three year core in statistics and research methods

### University of Tasmania

Hobart, Tasmania

B.Sc. (HONOURS) COMPUTER SCIENCE

1997

- research into optimality in artificial neural networks
- advanced topics in operating systems and networks, simulation, discrete and continuous modelling, concurrency and supercomputing, artificial intelligence, expert systems, computer languages, functional programming, and advanced VLSI design

### University of Tasmania

Hobart, Tasmania

B.Sc. COMPUTER SCIENCE

1995

- principles of computer science and software engineering, computer languages, metaprogramming, functional programming, systems analysis, databases, computer architecture and VLSI design, networking, artificial intelligence, computer graphics, and digital image processing
- mathematics including discrete mathematics, linear algebra, operations research and optimisation, multivariate calculus, abstract algebra, computational methods, and cryptography

## Publications

1. Sabourenkov, P. E., & McLeay, R. C. (2019). 1574. Predictive ability and bias of vancomycin population PK models in an obese adult population. *Open Forum Infectious Diseases*, 6(Supplement\_2), S575–S575.
2. Sabourenkov, P. E., & McLeay, R. C. (2019). 1599. AUC24 vancomycin bayesian-based dosing: Increasing therapeutic target attainment with decreased TDM cost. *Open Forum Infectious Diseases*, 6(Supplement\_2), S583–S583.
3. Sabourenkov, P. (2018). *Medical device user interface* (Design Patent No. US D893,524 S). <https://patentgazette.uspto.gov/week33/OG/html/1477-3/USD0893524-20200818.html>
4. Bond, C., Baumgartl, T., Glenn, V., & Sabourenkov, P. (2016). 'MRC-wiki'—a mine rehabilitation and closure knowledge management tool for central queensland coalmine practitioners (pp. 39–42). The Australasian Institute of Mining; Metallurgy.
5. Sabourenkov, P. (2015). *Network analysis of genes implicated in medulloblastoma* [Master's thesis]. Institute for Molecular Bioscience, University of Queensland.
6. Sabourenkov, P. (2009). *Effects of attention on motor cortex plasticity in response to somatosensory stimulation* [Honours Thesis]. Human Motor Control Lab, School of Psychology, University of Tasmania.
7. Last, P., Williams, A., & Sabourenkov, P. (1998). Exchange and analysis of historical soviet fishery survey data from the waters around australia. *FRDC Project*, 93/239.

8. Sabourenkov, P. (1997). *Exploration of error functions in backpropagation artificial neural networks* [Honours Thesis]. Department of Computer Science, University of Tasmania.

## Short Courses

2012	Drugs and the Brain (Neuropharmacology)	California Institute of Technology
2012	Fundamentals of Pharmacology	University of Pennsylvania
2001	Certificate of English Language Teaching to Adults (CELTA)	Cambridge College of English (CIC)

## Recognition and Professional Memberships

2014	Australian Bioinformatics and Computational Biology Society (ABACBS)	Member
2010	Golden Key International Honour Society	Member
2010	Australian Psychological Society	Assoc. MAPS
1996	Australian Computer Society	MACS

## Career Profile

2016-2021	Computational Biologist (Pharmacometrics)	DoseMe Pty.Ltd.
2015-2017	Consultant (Databases)	CMLR, UQ
2014-2015	Bioinformatician (Cancer Genomics)	IMB, UQ
2010-2013	Software Engineer (Machine Control)	Leica Geosystems
2007-2010	Senior Systems Analys (Systems)	Tote Tasmania
2004-2007	Senior Developer (Databases)	Tote Tasmania
2001-2004	Software Development Team Leader (Systems)	Tote Tasmania
1999-2000	GIS Data Analyst, Statistician	CSIRO Division of Marine Research
1999-2000	Software Developer (Scientific Software)	CSIRO Division of Marine Research
1998-1998	Software Developer (Simulation and Modelling)	University of Tasmania
1991-1992	Software Developer (Finance)	Open Look Software
1989-1989	Support Programmer (Process Control)	Skobeltsyn Institute of Nuclear Physics

## Select Skills

Computer Science	Mathematical Statistics	Modelling	Bioinformatics	Genomics	Network Analysis	Systems	Pharmacometrics	Data Science	Computational Methods	Simulation							
Artificial Intelligence	Optimisation	Artificial Neural Networks	Neuroscience														
Databases	High Performance Computing	Functional Programming	Cloud Computing	Reproducible Research	Software Quality	Scientific Software	Commercial Software	Analytics									
Agile Development	Software Project Management	Pair Programming	Mentoring	Scrum	Git	Docker	DevOps	Ansible									
R	Julia	SQL	Python	Perl	FORTRAN	C++	C	Ruby	Prolog	Assembler	JavaScript	Java	Objective-C	TypeScript	Swift	Erlang	Elixir

## One More Thing

THIS CV IS WRITTEN IN R AND MARKDOWN, YOU CAN VIEW THE SOURCE CODE ON GITHUB

[HTTPS://GITHUB.COM/FRCTLCDR/PAULSAB-CV](https://github.com/frctlcdr/paulsab-cv)