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://patentsgazette.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 **Software Englineering** **Mathematical Statistics** **Modelling** **Bioinformatics** **Genomics** **Network Analysis** **Systems** **Pharmacometrics** **Data Science** **Simulation** **Numeric Methods** **Artificial Intelligence** **Optimisation** **Artificial Neural Networks** **Neuroscience** **Non-linear Mixed Effects Models**

Databases **High Performance Computing** **Functional Programming** **Cloud Computing** **Reproducible Research** **Software Quality** **Scientfic Software** **Commercial Software** **Analytics**

Agile Development **Software Project Management** **Pair Programming** **Mentoring** **Scrum** **Git** **Docker** **DevOps** **Cloud Computing** **Ansible** **AWS** **Microsoft Azure**

R **Julia** **SQL** **Python** **Perl** **FORTRAN** **C++** **C** **Ruby** **Prolog** **Assembler** **JavaScript** **Java** **Objective-C** **TypeScript** **Swift** **Erlang** **Elixir** **CLIPS** **PL/SQL**

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`