

Guillaume Jourjon

Curriculum Vitae

Corner Vimiera &, Pembroke Rd
Marsfield NSW 2122
☎ (+61) 2 9490 5611
✉ guillaume@jourjon.net
🌐 <https://www.jourjon.net>

Education

- 2004–2007 **PhD in Computer Networks and Telecommunication**, University of New South Wales (UNSW) & Institut National Polytechnique de Toulouse (INPT)
- 2003–2004 **Masters of research in Network and Telecommunication**, ISAE-SupAero
- 2001–2004 **Masters Degree in Aeronautical Engineering**, ISAE-SupAero
- 1999–2001 **DEUG in Physics and Chemistry**, University Paul Sabatier, Toulouse III, France.

Professional Experience

- 2023–present **Principal Scientist. CSIRO**
- 2016–2023 **Senior Scientist. CSIRO**
- 2012–2016 **Senior Researcher. NICTA**
- 2008–2012 **Researcher. NICTA**
- 2007–2008 **Research Engineer. NICTA**

Recent Grants

- 2022–2028 Network lead of Correlator and Beamformer of SKA Low, total budget of \$13M
- 2020–2023 co-CI of Software Defined Network for Time Sensitive Network. NGTF funding, total budget of \$1M
- 2019–2020 co-CI of Automated Verification of Control Protocols with timed automata. NGTF funding, total budget of \$160k
- 2017–2020 co-CI of Deep Kernel Traffic Classification, NGTF funding, total budget of \$400k

Guillaume Jourjon's Top 5 recent Publication List

- *SKA Low Atomic COTS Correlator and Beamformer*, G.A. Hampson, J.D. Bunton, D. Humphrey, K.J. Bengston, **G. Jourjon**, A.B. Bolin, Y. Chen, E.R. Troup, G.C. Babich, and J.C. van Aardt, *Journal of Astronomical Telescopes, Instruments, and Systems*, 2022
- *Dissecting Traffic Fingerprinting CNNs with Filter Activations*, T. Dahanayaka, **G. Jourjon** and S. Seneviratne, *Elsevier Computer Network*, 2022
- *The Attack of the Clones Against Proof-of-Authority*, P. Ekparinya, V. Gramoli, **G. Jourjon**, *Network and Distributed Systems Security (NDSS) Symposium* 2020.
- *A Multi-modal Neural Embeddings Approach for Detecting Mobile Counterfeit Apps*, J. Rajasegaran, N. Karunanayake, A. Gunathillake, S. Seneviratne, and **G. Jourjon**, 2019 World Wide Web Conference (WWW 19), May 13– 17, 2019, San Francisco, CA.
- *DLibOS: Performance and Protection with a Network-on-Chip*, S. Mallon, V. Gramoli, **G. Jourjon**, *ACM ASPLOS 2018, 23rd ACM International Conference on Architectural Support for Programming Languages and Operating Systems*, March 2018, Williamsburg, VA, USA.

Awards

- Best Demo — Future Internet Assembly 2014
- Best Paper — TridentCom 2011
- Best Paper — Multimedia Communications & Home Services Symposium, ICC 2007

PhD supervision

- 2017–2021 Ying Li (UTS), “Application of Deep Learning Techniques to Traffic Classification”, co-supervised with A/Prof Richard Xu.
- 2016–2020 Parinya Ekparinya (University of Sydney), “A Networking Paradigm for Blockchain Applications”, co-supervised with A/Prof. Vincent Gramoli.
- 2016–2020 Stephen Mallon (University of Sydney), “Per-core networking stack to accelerate network bound applications”, co-supervised with A/Prof. Vincent Gramoli.
- 2015–2019 Tanvir ul Huque (UNSW), “The COT property of SDN; Consistent Optimized and Trust-worthy Deployment of SDN”, co-supervised with Pr Aruna Seneviratne.
- 2016–2018 Mohammad Javad Shamani (UNSW), “Optimal Policy for Multi-path TCP”, co-supervised with Pr. Aruna Seneviratne.
- 2012–2017 Benoy Varghese (UNSW), “Contribution to Energy Aware Video Streaming from Server to Clients”, co-supervised with Pr. Aruna Seneviratne
- 2007–2011 Olivier Mehani (UNSW), “Contributions to Mechanisms for Adaptive Use of Mobile Network Resources”, co-supervised with Dr. Roksana Boreli, Dr Thierry Ernst and Arnaud de La Fortelle.
- 2009–2011 The Tung Nguyen (University of Toulouse), “An Environment for Peer-to-Peer High Performance”, 2011, co-supervised with Dr. Didier El Baz.

Teaching

Full courses at the University of Sydney and UNSW, including Distributed Systems (COMP3221 / COMP2121), Advanced Networking (TELE9756) and Internet Protocols (COMP5116), plus guest lectures across security, advanced network technologies and capacity planning.

Community service

Technical committee of Elsevier Computer Communications. Web / publicity / proceedings chair for ACM CoNEXT 2014, IEEE WoWMoM 2014, PAM 2017, IEEE PerCom 2016 and IFIP Performance 2015. TPC member of IEEE LCN, IEEE WoWMoM, ACM MSWiM and others.

Technical Skills

Programming	JAVA, RUBY, PYTHON, C, C++, SHELL, UML2, R
Software	L ^A T _E X, ATOM, MS WORD, MS EXCEL, MS POWERPOINT, JAVASCRIPT
Operating Systems	UNIX, LINUX, MS WINDOWS, SOFTWARE DEFINED NETWORKS AND CLOUD TECHNOLOGIES

Languages

French	Native speaker
English	Fluent
Spanish	Academic background