

# ANDRÉ V. G. S. GONÇALVES

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## SHORT BIO

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I am a Telecommunications/Computer Engineer (BS/MS/PhD-in progress) with professional experience in Technical Support Engineering (tiers 1-3) and Computer Networks Management. Over the years, I have developed strong proficiency in Python, Linux (mostly Debian/Ubuntu), Bash scripting, Computer/Wireless Networks, and lately endeavoured in Machine Learning and Data Science. Among some relevant soft-skills, I list fast learner, team worker, and a good communicator.

## TECHNICAL FEATURED SKILLS

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- Python, Bash scripting, C/C++, Matlab/Octave.
- Machine and Reinforcement Learning.
- Linux Debian/Ubuntu, Git.
- Computer/Wireless Networks, and Software Defined Radio (Gnu Radio).

## EXPERIENCE

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### CONNECT Centre – Dublin, Ireland

*Mar 2019 – Present*

PhD researcher

A team member of the project SATORI: Smart Networking in the Era of AI, <http://satori-project.net>.

### Winet Research Lab. – Belo Horizonte, Brazil

*Feb 2017 – Jan 2019*

Master's researcher

Member of the Winet research group. Main research areas: applications of machine learning to wireless networks, self-organizing and cognitive networks. **Technical skills:** Python, C++, Machine/Reinforcement Learning, Gnu Radio.

**Soft skills:** Technical and academic writing.

### Kiffer TI – Belo Horizonte, Brazil

*Aug 2017 – Nov 2018*

Technical support analyst

On-site and on-demand IT technical support to Wabtec Corporation – Belo Horizonte, Brazil. **Technical skills:** Network troubleshooting and infrastructure, application support (Windows, TOTVS). **Soft skills:** On-site customer support environment experience.

### Bwtech/NetChart – Belo Horizonte, Brazil

*Nov 2015 – May 2017*

Coordinator, Tier-3 support

*Apr 2017 – May 2017*

Engineer, Tier-2 support

*Sep 2016 – Mar 2017*

Intern, Tier-1 support

*Nov 2015 – Aug 2016*

As a member of the support engineering team, my main daily activities consisted of: collecting and processing data from mobile networks (Operations Support Systems, OSS); assisting NetChart users; troubleshooting lack of data and OSS-related problems; and lastly, coordinating the activities of the support engineering team. **Technical skills:** Linux, Bash scripting, MySQL, .NET. **Soft skills:** Teamwork, Customer support environment experience.

### Somers Entertainment – Adelaide, Australia

*Aug 2014 – Nov 2014*

Electronics Technician

Part-time job as an electronics technician, repairing sound and lighting equipment. **Technical skills:** Soldering, Electronics. **Soft skills:** English communication.

## EDUCATION

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### Trinity College Dublin – Dublin, Ireland

*Mar 2019 – Present*

PhD student in Electrical and Electronics Engineering

Supervisor: Luiz A. DaSilva

**The Federal University of Minas Gerais – Belo Horizonte, Brazil**

*Feb 2017 – Jan 2019*

Master's degree in Computer Science

Master's thesis: Troca automática de protocolos MAC empregando aprendizado por reforço (*i.e.*, *Automatic MAC protocol selection in wireless networks based on reinforcement learning*). **GPA:** 9.3/10.

**The University of Adelaide – Adelaide, Australia**

*Jan 2014 – Jan 2015*

Exchange program in Engineering

**GPA:** 7.7/10.

**The Federal University of São João del-Rei – Ouro Branco, Brazil**

*Feb 2011 – Dec 2016*

Bachelor's degree in Telecommunications Engineering

**GPA:** 8.7/10.

**FURTHER COURSES AND CERTIFICATES**

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- CONNECT Centre Summer School. *Machine Learning for Communication Systems and Networks*. Organised by Trinity College Dublin. *Sep 2-4 2019*
- IEEE Summer School of Information Engineering (SSIE). *AI and Machine Learning for ICT Applications*. Organised by the University of Padova. *Jul 8-12 2019*
- *Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization*. Coursera. License 6Y8ZCRAD8QL2.
- *Neural Networks and Deep Learning*. Coursera. License FEV6C7P77SWF.
- *Machine Learning*. Coursera. License 4MGHZZQTNYBG.
- *Introduction to Data Science in Python*. Coursera. License 7QQPC83QL6W9.

**AWARDS**

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- Master's degree scholarship. Funding granted by CAPES. Host university: The Federal University of Minas Gerais. *Feb 2017 – Jan 2019*
- International student scholarship from the Brazilian educational program Science Without Borders. Funding granted by CNPq. Host university: The University of Adelaide. *Jan 2014 – Jan 2015*

**LANGUAGES**

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**Portuguese:** native; **English:** proficient; **Spanish:** elementary.

**PUBLICATIONS**

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**Gonçalves, A. V. G. S.**, Macedo, D. F. and Vieira, L. F. M. (2018). *FS-MAC+: Troca flexível do protocolo de acesso ao meio em redes sem fio empregando aprendizado de máquina*. In XXXVI Brazilian Symposium on Computer Networks and Distributed Systems (SBRC). Available at <https://goo.gl/fPAUy4>.

**Gonçalves, A. V. G. S.** and Kakitani, M. T. (2016). *Proposta de algoritmo para preenchimento automático de tabelas de vizinhança em ambientes LTE*. Available at <https://goo.gl/f9trF8>.

**TALKS & PRESENTATIONS**

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Short course given at the IFMG Betim. **Gonçalves, A. V. G. S.**, Macedo, D. F. and Silva, E. B. *Programmable Radios using GNU Radio*. Duration: 3h. Date: 26/10/2017.

Conference article presentation. **Gonçalves, A. V. G. S.**, Macedo, D. F. and Vieira, L. F. M. (2018). *FS-MAC+: Troca flexível do protocolo de acesso ao meio em redes sem fio empregando aprendizado de máquina*. In XXXVI Brazilian Symposium on Computer Networks and Distributed Systems (SBRC).