

# ANDRÉ GOMES

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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** (in-progress)

*Mar 2019 – Present*

PhD researcher

A team member of the project SATORI: Smart Networking in the Era of AI, <http://satori-project.net>. **Technical skills:** Python, Machine Learning frameworks (TensorFlow, Keras, PyTorch).

**Winet Research Lab. – Belo Horizonte, Brazil** (2yrs)

*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** (1.4yrs)

*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** (1.7yrs)

*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 multi-vendor mobile network operators (Nokia-, Huawei-, Ericsson-, etc. OSS – Operations Support System); 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** (4mos)

*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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### PhD in Electronic and Electrical Engineering

Trinity College Dublin – Dublin, Ireland

Mar 2019 – Present

Advisor: Prof. Luiz A. DaSilva

### Master's in Computer Science

The Federal University of Minas Gerais – Belo Horizonte, Brazil

Feb 2017 – Jan 2019

**GPA:** 4.64 out of 5.0

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*) URL

Advisor: Prof. Daniel F. Macedo

### Bachelor's in Telecommunications Engineering

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

Feb 2011 – Dec 2016

**GPA:** 8.7 out of 10.0

Exchange student, The University of Adelaide – Adelaide, Australia

Jan 2014 – Jan 2015

**GPA:** 5.8 out of 7.0

## 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

- Coursera courses (by topic): 1. Machine Learning (Certificate(s): 4MGHZXQTNYBG, FEV6C7P77SWF, 6Y8ZCRAD8QL2); 2. Data Science (Certificate(s): 7QQPC83QL6W9); 3. Golang (Certificate(s): QD-VUL2PFJDDJ).

## 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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[1] **Gomes, A.**, Kibilda, J., Farhang, A., Farrell, R., and DaSilva, L. A. (2020). *Network sharing for reliable networks: a data-driven study*. In IEEE International Conference on Communications (ICC). URL/PDF.

[2] **Gomes, A.**, Macedo, D. F., and Vieira, L. F. M. (2019). *Automatic MAC protocol selection in wireless networks based on reinforcement learning*. In ELSEVIER Journal of Computer Communications. URL/PDF.

[3] **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). URL/PDF.

[4] **Gonçalves, A. V. G. S.** and Kakitani, M. T. (2016). *Proposta de algoritmo para preenchimento automático de tabelas de vizinhança em ambientes LTE*. URL.

## 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).