Niander N de Assis *Curriculum Vitae*

EDUCATION

03/2018 – 05/2021 **M.S. in Computer Science (research based)**
Universidade Federal de Minas Gerais – UFMG, Belo Horizonte, Brazil
Thesis: A Causal Investigation of Timeouts in Basketball Games
Advisor: Prof. Pedro O.S. Vaz-de-Melo
Co-advisor: Prof. Renato M. Assunção

03/2013 – 12/2017 **Bachelor's in Computer Science**
Universidade Federal de Minas Gerais – UFMG, Belo Horizonte, Brazil
Cumulative GPA: 4.83 / 5.0

01/2015 – 12/2015 **Exchange program "Science without Borders"**
University of Toronto, Toronto, Canada
Cumulative GPA: 3.93 / 4.0
Non-degree exchange program funded by the government of Brazil

MAJOR PROJECTS

03/2017 – 05/2021 **Master's Research**
Universidade Federal de Minas Gerais – UFMG, Minas Gerais, Brazil
Supervisor: Prof. Pedro O.S. Vaz-de-Melo

- Applied *Causal Inference* to investigate the effect of timeouts in Basketball games.
- Using R and Python collected raw data and implemented data analysis and ML algorithms
- Paper and oral presentation in ECML PKDD 2020

06/2018 – 12/2018 **Master's Supervised Project**
Universidade Federal de Minas Gerais – UFMG, Minas Gerais, Brazil
Supervisor: Prof. Mario S. Alvim

- Studied the application of *Causal Inference* to fairness and justice in algorithms.
- Guided discussion on recent research papers and presented seminars on the fundamentals of causal inference.

01/2014 – 06/2014 **Undergraduate Research**
Universidade Federal de Minas Gerais – UFMG, Minas Gerais, Brazil
Supervisor: Prof. Douglas G. Macharet

- Conducted research in artificial intelligence for path planning.
- Published a paper presenting a novel algorithm for solving a minimum router deployment problem.

WORK EXPERIENCE

03/2023 – current **Software Engineer II - Microsoft,** Redmond WA

- Worked on enabling users of Azure Synapse and Microsoft Fabric to acquire credentials and secrets for authenticating to other services
- Led the efforts on improving a library for Scala and Python Spark that provides helpful functions to acquire credentials, and implements extension providers to Spark's Hadoop built-in connectors.

10/2019 – 03/2023 **Software Engineer II - Microsoft**, Redmond, WA

- Worked on the development of the DevAI Platform, an internal azure-based platform that enables data scientists to easily onboard their models to a production ready environment
- Led the design and development of a Python SDK shipped with the platform. It included libraries and methods that enable users to authenticate to their Azure resources, the creation and emission of logs and metrics, and uploading or downloading training data
- Contributed to the open-source Python tools and libraries such as tox, knack and Azure CLI.

02/2019 – 10/2019 **Software Engineer - Microsoft**, Redmond, WA

- Supported and contributed to the Azure PowerShell SDKs for management control of Azure resources
- Worked closely with internal partners and customers to make sure their PowerShell contribution to our OSS project on Github followed our guidelines

05/2015 – 09/2015 **Software Developer Engineer Intern** - **Amazon**, Toronto, Canada

- Worked as a software developer engineer planning, developing and testing high scale software for the Fulfillment by Amazon service
- Developed a service that populates missing description of listed items in the marketplace

06/2013 – 12/2013 **Software Developer Intern** - **BRAE Biotecnologia**, Belo Horizonte, Brazil

- Worked in a small team as a C# developer and tester, creating an innovative software for veterinary ECGs.
- Optimized the software development process, creating a continuous integration environment while managing databases and servers.

PUBLISHED PAPERS

2020 **Assis, N.**, Assunção, R., Vaz-de-Melo, P.O.S. **"Stop the Clock: Are Timeout Effects Real?"** Machine Learning and Knowledge Discovery in Databases. Applied Data Science and Demo Track: European Conference (ECML PKDD), 2020. https://arxiv.org/abs/2009.06750

Oral Presentation at Conference

2014 D. G. Macharet, **N. N. de Assis**, D. N. G. do Valle, E. R. S. Santos, M. A. M. Vieira and M. F. M. Campos, **"A Graph-based Algorithm for Minimum Router Deployment"** Robotics Symposium and Latin American Robotics Symposium (SBRLARS), 2014. https://doi.org/10.1109/SBR.LARS.Robocontrol.2014.15

AWARDS

2018 **1st Best Student Award (Highest GPA),** Department of Computer Science, UFMG, Brazil

2012 **Silver Medal** in 2012 National Algorithms Olympiad of Hostnet, Brazil

VOLUNTEER

01/2015 – 12/2015 **Ambassador and Mentor – Science without Borders Exchange Program**
Centre for International Experience, University of Toronto

- Represented exchange students currently in the program.
- Advised and planned activities helping to integrate exchange students from Brazil and other students at the university.
- Mentored new exchange students arriving at the university.

2014 **Volunteer instructor - Coding**
Dovercourt Junior Public School, Toronto, Canada

- Instructed grade 5 students about coding on the coding day.

OTHER PUBLICATIONS

2014 **N. N. de Assis**, **"Let's Code It"**, World of Words, issue 87, p. 26, Sept. 2014
https://issuu.com/englishlanguageprogram/docs/wow_sept_2014_issuu/27?e=0/9466649

- Article discussing the importance of teaching coding in schools
- Written during Academic English Level 60 course from School of Continuing Studies, University of Toronto.

TECHNICAL SKILLS

R, Python, C#, C, C++, Java, Scala.

LINKS

Personal Page	niander.github.io
Google Scholar	scholar.google.com/citations?user=x6qeS4wAAAAJ
Github	github.com/niander
LinkedIn	linkedin.com/in/niander/