Jonatas Marques

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Education

2017–2022	**Ph.D. in Computer Science**, *Federal University of Rio Grande do Sul (UFRGS)*, Brazil. Advisor: Luciano Paschoal Gaspary.
Sep, 2019–Jul, 2020	**Visiting Scholar**, *University of Illinois at Urbana-Champaign*, USA. Advisor: Kirill Levchenko.
2015–2017	**M.Sc. in Applied Computing**, *Santa Catarina State University (UDESC)*, Brazil. Advisor: Rafael Rodrigues Obelheiro.
2011-2015	**B.Sc. in Computer Science**, *Santa Catarina State University (UDESC)*, Brazil. With honors. Advisor: Rafael Rodrigues Obelheiro.

Honors and Awards

2022	**Ph.D. Graduation with Honors**, *Federal University of Rio Grande do Sul (UFRGS)*, Brazil.
2019	**Best Student Paper Award**, *IFIP/IEEE International Symposium on Integrated Network Management (IM 2019)*, along with Ângelo Lapolli and advised by Luciano Paschoal Gaspary.
2018	**Best Paper Award**, *Brazilian Symposium on Computer Networks and Distributed Systems (SBRC)*, advised by Luciano Paschoal Gaspary.
2015	**B.Sc. Graduation with Honors**, *Santa Catarina State University (UDESC)*, Brazil.
2013	**Honorable Mention**, *Brazilian Final of the International Computer Programming Contest (ICPC) of the Association for Computing Machinery (ACM)*, along with team members Ramon Oliveira and Tárliton Godoy.

Experience

2021–Now	**Research Project Member**, *SkyNet: Towards Smart Data Planes*.
2021–2022	**Substitute Teacher**, *Introduction to Programming*, Federal University of Rio Grande do Sul (UFRGS).
2017–2022	**Student to Student Peer Mentoring**, Federal University of Rio Grande do Sul (UFRGS). Peer mentoring of four M.Sc. students.
2017–2020	**Research Project Member**, *P4Sec: Securing Networks in the Programmable Data Plane Era*.
Mar, 2018–Nov, 2018	**Undergraduate Final Project Advising**, Federal University of Rio Grande do Sul (UFRGS). Co-advisor to an undergraduate student's final project.
Aug, 2017–Dec, 2017	**Teaching Assistance**, *Programming Challenges*, Federal University of Rio Grande do Sul (UFRGS). Graduate TA in the Programming Challenges course in the Computer Science program.
Mar, 2017–Jul, 2017	**Teaching Assistance**, *Communication Protocols*, Federal University of Rio Grande do Sul (UFRGS). Graduate TA in the Communication Protocols course in the Computer Science program.

Sep, 2016	**Tutoring**, *Data Analysis with Python*, Santa Catarina State University (UDESC). Instructor in a one-day tutorial on data analysis with Python, Pandas, Numpy, Matplotlib, and Jupyter Notebooks.
Mar, 2016–Jul, 2016	**Teaching Assistance**, *Operating Systems*, Santa Catarina State University (UDESC). Graduate teaching assistant in the Operating Systems course in the Computer Science program.
Dec, 2013–Nov, 2014	**Student Body Representation**, *Department of Computer Science*, Santa Catarina State University (UDESC). Representative of the student body of the Department of Computer Science at regular department meetings.
Sep, 2013	**Tutoring**, *Introduction to Programming Contests*, Santa Catarina State University (UDESC). Instructor in a three-day tutorial on programming contests.
Aug, 2013–Jul, 2014	**Teaching assistance**, *Data Structures Course*, Santa Catarina State University (UDESC). Undergraduate TA in the Data Structures course in the Computer Science program.
Aug, 2012–Dec, 2012	**Undergraduate Research**, *Geographic Information Systems*, Santa Catarina State University (UDESC). Undergraduate research for the development of a geographic information system.

Selected Publications

2020   **MARQUES, JONATAS ADILSON**; LEVCHENKO, KIRILL; GASPARY, LUCIANO PASCHOAL. *IntSight: Diagnosing SLO Violations with In-Band Network Telemetry.* ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT 2020), 2020, Barcelona, Spain.

2019   **MARQUES, JONATAS ADILSON**; LUIZELLI, MARCELO CAGGIANI; TAVARES DA COSTA FILHO, ROBERTO IRAJÁ; GASPARY, LUCIANO PASCHOAL. *An optimization-based approach for efficient network monitoring using in-band network telemetry.* Journal of Internet Services and Applications, v. 10, p. 12, 2019.

2019   LAPOLLI, ÂNGELO; **MARQUES, JONATAS ADILSON**; GASPARY, LUCIANO PASCHOAL. *Offloading Real-time DDoS Attack Detection to Programmable Data Planes.* IFIP/IEEE International Symposium on Integrated Network Management (IM 2019), 2019, Arlington, VA, USA. **Best Student Paper Award.**

2018   **MARQUES, JONATAS ADILSON**; GASPARY, LUCIANO PASCHOAL. *Explorando Estratégias de Orquestração de Telemetria em Planos de Dados Programáveis.* Proceedings of XXXVI Brazilian Symposium on Computer Network and Distributed Systems (SBRC), 2018. **Best Paper Award.** (In Portuguese)

2017   DA COSTA CORDEIRO, WEVERTON LUIS; **MARQUES, JONATAS ADILSON**; GASPARY, LUCIANO PASCHOAL. *Data Plane Programmability Beyond OpenFlow: Opportunities and Challenges for Network and Service Operations and Management.* Journal of Network and Systems Management, v. 1, p. 1-35, 2017.

2017   **MARQUES, JONATAS ADILSON**; OBELHEIRO, RAFAEL RODRIGUES. *Escada: Predicting Virtual Machine Network Bandwidth Demands for Elastic Provisioning in IaaS Clouds.* Proceedings of the 2017 IEEE International Conference on Cloud and Autonomic Computing (ICCAC), 2017, Tucson, AZ, USA.