

# Sherlon Almeida da Silva

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## Education

**University of São Paulo, São Carlos - SP, Brazil**

 **Ph.D** in Computer Science **GPA:** 4.00/4.00

 **M.S.** in Computer Science **GPA:** 3.51/4.00

**Graduation**

Nov. 2021 - Present

Mar. 2019 - Nov. 2021

**Federal University of Pampa, Alegrete - RS, Brazil**

 **B.S.** in Computer Science **GPA:** 8.54/10

Mar. 2015 - Dec. 2018

Graduated with Honors

## Work and Research Experience

**Speaker at Ultima School**

**Jun. 2022 – Present**

Teach programming with Python and SQL for the Data Science, Data Analysis, and Python Developer courses.

**Researcher and Full Stack Developer at Natura Cosméticos S.A**

**Mar. 2022 – Dec. 2022**

Develop a system for skin color processing and classification in order to represent customer diversity, using Machine and Deep Learning, HTML, CSS, JavaScript and Python.

**Graduate Researcher at University of São Paulo**

**Mar. 2019 – Present**

**PhD:** Develop methods using self-supervised learning for visual cross-domain information retrieval based on multimodal queries, using Python and Deep Learning approaches.

**Master's Degree:** Develop and evaluate a visual analytics system for information retrieval in document collections, using HCI approaches, R, JavaScript, HTML and CSS.

**Researcher, Developer and Tester at LEA/Unipampa**

**Jun. 2015 – Dec. 2018**

Develop and test high-performance systems and frameworks to achieve faster algorithms, using C, C++, Fortran, OpenMP, CUDA, and cache optimizations.

## Relevant Skills

**Main Programming:**

C (8 years)

Shell Script (4 years)

R, C++, C# (2 years)

Python (7 years)

JavaScript, HTML, CSS (3 years)

Fortran, Lua, Java (1 year)

**Other Technologies:** Pytorch, Tensorflow, Scikit-Learn, Pandas, OpenCV, OpenMP, Linux, Windows, Latex, Git/Github, Graphic Design (Corel Draw), VHDL and Arduino.

**Languages:** Portuguese (Native), English (Advanced) and Spanish (Basic)

## Honors & Awards

**1) Research Award Nomination (2023) - at Natura Cosméticos S.A**

The project developed in partnership with Natura Cosméticos S.A. was selected as one of the three most innovative projects in technology and research in 2022, out of more than 50 projects.

**2) Best paper award (2021) - 3rd place of 29 accepted papers (38%) among 77 submissions**

**3) Graduated [with honors](#) (2018)**

Bachelor of Computer Science degree with honors from Unipampa's University

**4) Programming Marathons**

- a) **3rd place in the 1st Parallel Programming Marathon (2018) at [ERAD/RS](#)**
- b) **Honorable Mention in the 13th Marathon of Parallel Programming (2018) at [WSCAD](#)**
- c) **Honorable Mention in Programming Marathon (2017) at [ACM ICPC](#)**
- d) **3rd place in the 11th Marathon of Parallel Programming (2016) at [WSCAD](#)**

**5) Mathematical Olympiad Honorable Mention (2012)**

This award was created by to highlight the best math students in the country (Brazil)

## Teaching Experience

I participated as a teaching assistant four times at the Institute of Mathematics and Computer Science and School of Engineering of São Carlos, both at the University of São Paulo. I used to create and correct practical assignments and mentor students throughout the entire course.

Teaching Assistant - [Digital Image Processing](#) (SCC5830, SCC0521, MAI5020 & MAI5021) **2022**

Teaching Assistant - [Laboratory of Introduction to Computer Science I](#) (SCC0222) **2022**

Teaching Assistant - [Introduction to Computer Science II](#) (SCC0201) **2020**

Teaching Assistant - [Introduction to Programming](#) (SCC0124) **2020**

## Publications

- [<Link>](#) FERRAO, Isadora G.; DA SILVA, Leandro M.; DA SILVA, Sherlon Almeida; DEZAN, Catherine; ESTEPES, David; BRANCO, Kalinka R. L. J. C. ***Intelligent diagnosis of engine failure in air vehicles using the ALFA dataset.*** In: International Conference on Unmanned Aircraft Systems (ICUAS), 2023. p. 1.
- [<doi>](#) DA SILVA, Sherlon Almeida; MILIOS, Evangelos E ; DE OLIVEIRA, Maria Cristina F. ***Evaluating visual analytics for relevant information retrieval in document collections.*** Interacting With Computers, v. 1, p. 1-15, 2023.
- [<doi>](#) DA SILVA, Sherlon Almeida; MILIOS, Evangelos E. ; DE OLIVEIRA, Maria Cristina F. ***Evaluating visual analytics for text information retrieval.*** In: IHC '21: XX Brazilian Symposium on Human Factors in Computing Systems, 2021, Virtual Event Brazil. Proceedings of the XX Brazilian Symposium on Human Factors in Computing Systems, 2021. p. 1. [[Honorable Mention Award](#)]
- [<doi>](#) FERRAO, Isadora G. ; DA SILVA, Sherlon Almeida; PIGATTO, Daniel F. ; BRANCO, Kalinka R. L. J. C. ***GPS spoofing: detecting GPS fraud in unmanned aerial vehicles.*** In: 2020 Latin American Robotics Symposium (LARS), 2020 Brazilian Symposium on Robotics (SBR) and 2020 Workshop on Robotics in Education (WRE), 2020, Natal. 2020 Latin American Robotics Symposium (LARS), 2020 Brazilian Symposium on Robotics (SBR) and 2020 Workshop on Robotics in Education (WRE), 2020. p. 1.
- [<doi>](#) FERRAO, Isadora. G. ; CHERVINSKI, João. O. ; SILVA, Sherlon Almeida ; KREUTZ, Diego; IMMICH, Roger; KEPLER, Fábio; RIGHI, Rodrigo R. ***Urnas eletrônicas no Brasil: linha do tempo, evolução e falhas e desafios de segurança.*** REVISTA BRASILEIRA DE COMPUTAÇÃO APLICADA, v. 11, p. 1-12, 2019.
- [<doi>](#) GARCIA, Adriano M.; SCHEPKE, Claudio; Girardi, Alessandro G.; DA SILVA, Sherlon Almeida. ***A new parallel benchmark for performance evaluation and energy consumption.*** In: Hermes Senger; Osni Marques; Rogerio Garcia; Tatiana Pinheiro de Brito; Rogério Iope; Silvio Stanzani;

Veronica Gil-Costa. (Org.). High Performance Computing for Computational Science - VECPAR 2018.. (Org.). Lecture Notes in Computer Science. 1ed.: Springer International Publishing, 2019, v. 11333, p. 188-201.

- [<doi>](#) GARCIA, Adriano M.; SCHEPKE, Claudio; GIRARDI, Alessandro G.; DA SILVA, Sherlon Almeida ***Power consumption of parallel programming interfaces in multicore architectures: a case study.*** In: 2018 Symposium on High Performance Computing Systems (WSCAD), 2018, São Paulo. 2018 Symposium on High Performance Computing Systems (WSCAD), 2018. p. 77-158.
- DA SILVA, Sherlon Almeida; SERPA, Matheus da S.; SCHEPKE, Claudio. ***Técnicas de otimização loop unrolling e loop tiling em multiplicação de matrizes utilizando openmp.*** In: XII Simpósio de Sistemas Computacionais de Alto Desempenho, 2016, Aracaju/SE. Anais do WSCAD-WIC 2016. Porto Alegre: Sociedade Brasileira de Computação, 2016. v. 1. p. 13-18. **[Best Paper Award]**
- [<Link>](#) Other publications