





# LUCAS PASCOTTI VALEM


## Master's Student in Computer Science

 05/05/1995

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## PROFILE


Fascinated by research and innovation, I'm always ready to learn new things and face challenges. I have experience in multiple areas including software development, information retrieval, image retrieval by content, machine learning, computer vision, deep learning, image processing, pattern recognition, and parallel computing.

## EDUCATION


**M.Sc. in Computer Science**  
**São Paulo State University (UNESP)**  
 2017 – ongoing  Rio Claro, São Paulo **GPA: 3.83**

**B.Sc. in Computer Science**  
**São Paulo State University (UNESP)**  
 2013 – 2016  Rio Claro, São Paulo **GPA: 3.38**

## EXPERIENCE

**Master's Research**  
**São Paulo State University (UNESP)**  
 2017 – ongoing **Funded by FAPESP**

- Researched and published new strategies to select and combine image retrieval methods in a completely unsupervised way.
- Created a new semi-supervised method for data classification.

**Undergraduate Research**  
**São Paulo State University (UNESP)**  
 2014 – 2016 **Funded by FAPESP**

- Created two new post-processing methods for information retrieval.
- Evaluated both methods for image retrieval scenarios revealing results comparable to the state-of-the-art in effectiveness, efficiency, and scalability.
- Developed, implemented, and published an open-source framework of different post-processing methods for multimedia retrieval. I've written the entire project in C/C++ ([github.com/UDLF](https://github.com/UDLF)).
- Published several papers in relevant international conferences and journals, receiving several awards.

## MAIN PUBLICATIONS

- ★ **VALEM, L. P. ; PEDRONETTE, D. C. G. ; ALMEIDA, J. .** **Unsupervised Similarity Learning through Cartesian Product of Ranking References for Image Retrieval Tasks.** In: Pattern Recognition Letters (PRL), 2017.
- VALEM, L. P. ; PEDRONETTE, D. C. G. .** **An Unsupervised Distance Learning Framework for Multimedia Retrieval.** In: ACM International Conference on Multimedia Retrieval (ICMR), 2017, Bucharest - Romania.
- VALEM, L. P. ; PEDRONETTE, D. C. G.; TORRES, R. da S.; EDSON BORIN; ALMEIDA, J. .** **Effective, Efficient, and Scalable Unsupervised Distance Learning in Image Retrieval Tasks.** In: ACM International Conference on Multimedia Retrieval (ICMR), 2015, Shanghai - China.

## SKILLS

**Computer Languages**

C C++ Java Python JavaScript Bash Script Assembly x86 Perl Go Pascal HTML CSS XML Latex

**Tools and Frameworks**

Git PyTorch TensorFlow Lucene OpenCL

**Operating Systems**

GNU/Linux MacOS X Windows Android

## AWARDS

- 2017: Best Undergraduate Research** among more than one hundred works in the 36th Contest of Undergraduate Research Projects (CTIC) promoted by the SBC (Brazilian Computer Society).
- 2017: Honor Student in Undergraduate Research** among all the Computer Science students in the São Paulo State University.
- 2016: Best Undergraduate Research in the Math and Sciences field** in the XXVIII Congress of Undergraduate Research Projects (CIC) of the São Paulo State University, where more than one thousand students have participated.
- 2016: Best Paper Award in the Conference on Graphics, Patterns and Images (SIBGRAPI)**, one of the most relevant national conferences for image retrieval and processing.
- 2015: Fourth Place Undergraduate Research in the Math and Sciences field** in the XXVII Congress of Undergraduate Research Projects (CIC) of the São Paulo State University.
- 2015: Selected among the top-10 works** in the 34th Contest of Undergraduate Research Projects (CTIC) promoted by the SBC (Brazilian Computer Society).

## LANGUAGES

**Portuguese**

**English**

**Spanish**

**Italian**

**Japanese**