

# Felipe Leno da Silva (Leno) D.Sc. student at Escola Politécnica da USP

f.leno@usp.br • +55 11 98962 0702 • Profile on Google Scholar  
São Paulo, SP • Brazil • <https://f-leno.github.io>

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## Summary

Leno is a computer scientist working to push the boundaries of knowledge in the area of Artificial Intelligence. His main interest lies in Machine Learning, particularly in Reinforcement Learning, Supervised Learning, Computer Vision, and Multiagent Systems. Since his graduation, he has been deeply involved in academic research activities as a graduate student fellow.

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**Current Goal: Research Internship (preferably starting at June of 2017)**

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## Education

Escola Politécnica da Universidade de São Paulo, USP

SÃO PAULO, BRAZIL

**D.Sc. in Computer Engineering, ongoing (FAPESP scholar)**

03/2015 – present

*Transfer Learning for Multiagent Reinforcement Learning Systems* - This research aims at improving Multiagent Reinforcement Learning Algorithms to allow knowledge generalization and reuse among similar but different tasks.

(Advisor: Prof. Dr. Anna Helena Realí Costa)

Escola Politécnica da Universidade de São Paulo, USP

SÃO PAULO, BRAZIL

**M.Sc. in Computer Engineering (CNPq scholar)**

02/2013 – 02/2015

*Automated Bee Species Identification through Wing Images* - This research studied methods to allow an automated bee species identification through Computer Vision and Machine Learning techniques applied to bee wing images.

(Advisor: Prof. Dr. Anna Helena Realí Costa)

Pontifical Catholic University of São Paulo, PUC-SP

SÃO PAULO, BRAZIL

**B.S. in Computer Science (PROUNI scholar)**

02/2009 – 12/2012

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## Selected Conference Publications

SILVA, F. L.; COSTA, A. H. R. *Accelerating Multiagent Reinforcement Learning through Transfer Learning* (Doctoral Consortium). AAAI Conference on Artificial Intelligence, Accepted - 2017.

SILVA, F. L.; GLATT, R.; COSTA, A. H. R. *Object-Oriented Reinforcement Learning in Cooperative Multiagent Domains*. Brazilian Conference on Intelligent System (BRACIS), p. 19-24, 2016.

SILVA, F. L.; COSTA, A. H. R. *Transfer Learning for Multiagent Reinforcement Learning Systems* (Doctoral Consortium). International Joint Conference on Artificial Intelligence (IJCAI), p. 3982-3983 - 2016.

GLATT, R.; SILVA, F. L.; COSTA, A. H. R. *Towards Knowledge Transfer in Deep Reinforcement Learning*. Brazilian Conference on Intelligent System (BRACIS), p. 91-96, 2016.

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## Journal Publications

SANTANA, F. S.; COSTA, A. H. R.; TRUZZI, F. S.; SILVA, F. L.; SANTOS, S. L.; FRANCOY, T. M.; SARAIVA, A. M. *A reference process for automating bee species identification based on wing images and digital image processing*. Ecological Informatics, v. 24, p. 248-260, 2014

SILVA, F. L.; SELLA, M. L. G.; FRANCOY, T. M.; COSTA, A. H. R. *Evaluating classification and feature selection techniques for Honeybee subspecies identification using wing images*. Computers and Electronics in Agriculture, v. 114, p. 68-77 - 2015.

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## Additional Academic and Research Experience

### Graduate Teaching Assistant

University of São Paulo, USP

07/2013 – 12/2014

My activities involved teaching classes and assignment preparation and correction. This work was done for the following subjects: (i) *Laboratory of the Foundations of Computing Engineering*, and (ii) *Foundations of Computer Engineering*.

### Local Workshop Organizing Committee

1st Workshop on Transfer in Reinforcement Learning at AAMAS

2017

I am currently assisting on the workshop organization, which includes Program Committee recruiting, workshop program definition, advertisement, and sponsorship proposals.

### Workshop PC Member

1st Workshop on Transfer in Reinforcement Learning at AAMAS

2017

### Scientific Journal Referee

2015 – present

Journal of Telecommunications System & Management

Journal of Computational Methods in Sciences and Engineering

International Journal of Engineering and Technology Innovation

IET Image Processing

Manuscript review and evaluation for scientific journals.

### Undergraduate Research Co-mentor

University of São Paulo, USP

2015 – present

I have been providing mentorship for undergrad students researching on the topics *Automated Bee Species Identification* and *Multiagent Reinforcement Learning*.

### Undergraduate Thesis Committee Member

Faculdade de Tecnologia Termomecânica, FTT

2013 – 2014

I have acted as a Committee Member for several Undergraduate Thesis, mostly in projects related to Machine Learning.

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## Attended Conferences

### IJCAI : International Joint Conference on Artificial Intelligence

2016

Participation at IJCAI as a student volunteer, including a presentation in the Doctoral Consortium.

### BRACIS : Brazilian Conference on Intelligent Systems

2014, 2016

Participation at BRACIS/ENIAC joint conference, including a full paper presentations which awarded me a *best paper* prize.

### WPG-EC : Workshop of Graduate Studies on Computing Engineering

2013–2016

Presentation of extended abstracts at WPG-EC.

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## Professional Experience

### System Analyst

TOTVS

SÃO PAULO (BRAZIL)

2010 – 2013

*System Analyst*: Development and maintenance of ERP systems for small companies.

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## Awards

### Best Paper Award

BRACIS

2016

1st place: *Object-Oriented Reinforcement Learning in Cooperative Multiagent Domains*.

### Honorable Mentions

WPG-EC : Workshop of Graduate Studies on Computing Engineering

2013 – 2014

The extended abstract presented at WPG-EC received Honorable Mentions in 2013 and 2014 for the research project *Automated Bee Species Identification through Wing Images*.