

# Guilherme Alves da Silva

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**E-mail:** guilherme.alves-da-silva@inria.fr  
**Web:** <http://guilhermealves.eti.br>  
Brazilian, 25 years old

RESEARCH INTERESTS      Data Mining, Machine Learning (Theory and Applications), Metalearning, Recommender Systems, and User Preferences

CURRENT      ■ **PhD Student, Computer Science** 2018  
University of Lorraine, Nancy, France

*Research* | Thesis subject: Meta-mining through decision theory for exploratory knowledge discovery  
Supervisors: Prof Miguel Couceiro and Dr. Chedy Raïssi

EDUCATION      ■ **MSc, Computer Science** 2015-2017  
Federal University of Uberlândia, Uberlândia, Brazil

*Research* | Master Thesis: Evolving Semi-supervision in Online Clustering.  
Supervisor: Dr. Maria Camila N. Barioni.

*Other* | Graduate Council Student Representative

■ **BSc, Computer Science** 2011-2014  
Federal University of Uberlândia, Uberlândia, Brazil  
3rd best GPA among all 2014/2 CS students: 81 out of 100

*Research* | Scientific Initiation Project: Mining Contextual Preferences.  
Bachelor Thesis: Optimization and validation of the PrefRec framework for recommender systems.  
Supervisor: Prof. Dr. Sandra de Amo.

*Teaching* | Teaching assistant in the courses Procedural Programming and Databases Management.

SERVICES      ■ **Sub-reviewer:** ICMLA 2018, CBIS 2016, 17° WIM  
■ **Student volunteer at SBBD 2017**

PUBLICATIONS      CONSTRAINED CLUSTERING

■ G. Alves, M.C.N. Barioni, E. Faria.  
**A Framework for Online Clustering Based on Evolving Semi-Supervision.**  
*32nd Brazilian Symposium on Databases (SBBD)*, 2017, Uberlândia, p. 16-27.

RECOMMENDER SYSTEMS

■ C.Z. Felício, K.V.R. Paixão, G. Alves, S. Amo, P. Preux.  
**Exploiting Social Information in Pairwise Preference Recommender System.**  
In: *Journal of Information and Data Management (JIDM)*, v. 7, p. 99-115, 2016.

■ C.Z. Felício, C.M.M. Almeida, G. Alves, F.S.F. Pereira, K.V.R. Paixão, S. Amo.  
**VP-Rec: A Hybrid Image Recommender Using Visual Perception Network.**  
*IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI)*, 2016, San Jose, p. 70-77.

■ C.Z. Felício, C.M.M. Almeida, G. Alves, F.S.F. Pereira, K.V.R. Paixão, S. Amo.  
**Visual Perception Similarities to Improve the Quality of User Cold Start Recommendations.**  
*29th Canadian Conference on Artificial Intelligence (AI)*. 2016, Victoria, p. 96-101.

## PUBLICATIONS

- C.Z. Felício, K.V.R. Paixão, G. Alves, S. Amo.  
**Social PrefRec Framework: Leveraging Recommender Systems Based on Social Information.**  
3rd *Symposium on Knowledge Discovery, Mining and Learning (KDMiLe)*. 2015, Petrópolis, p. 66-73.

## PREFERENCE MINING

- S. Amo, M.L.P. Bueno, G. Alves, N.F. Silva.  
**Mining User Contextual Preferences.**  
In: *Journal of Information and Data Management (JIDM)*, v. 4, p. 37-46, 2013.
- S. Amo, M.L.P. Bueno, G. Alves, N.F. Silva.  
**CPrefMiner: An Algorithm for Mining User Contextual Preferences Based on Bayesian Networks.**  
*IEEE 24th International Conference on Tools with Artificial Intelligence (ICTAI)*, 2012, Athens, p. 114-121.

## AWARDS

**Brazilian Mathematical Olympiad of Public Schools:** Honorable mention 2009

## SCHOLARSHIPS

- **Inova Talentos Program** – located at Algar Telecom 2017  
Agency: Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)
- **CAPES Demanda Social Program** – CS Graduate Program 2016-2017  
Agency: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)
- **PIBIC/UFU** – Scientific Initiation Program 2012-2014  
Agency: Fundação de Amparo à Pesquisa do Estado de Minas Gerais (FAPEMIG)

## PROFESSIONAL EXPERIENCE

- **7waves**, Sorocaba, Brazil Dec. 2017 - Oct 2018  
RD&I Assistant
  - Working on R&D program as Data Scientist.
- **Algar Telecom**, Uberlândia, Brazil May 2017 - Nov. 2017  
RD&I Assistant
  - Worked on Smart Cities project.
  - Worked on Easy Bus prototype – a people counting system for public transportation. Main technologies involved: Python and OpenCV.
- **Sankhya Gestão de Negócios**, Uberlândia, Brazil May 2014 - Feb. 2015  
Internship in Web Development
  - Worked on maintaining Sankhya-W ERP: processing big amount of data for generating reports. Main technologies involved: Java, Oracle DB, and JasperReports.
  - Worked on developing new features for ERP's business intelligence module. Main technologies involved: Java, GWT, and Javascript.

## TECHNICAL SKILLS

- **Programming languages:** Python, Java, C.
- **Design and Analysis:** UML, Scrum, Waterfall.
- **Databases:** SQL, Oracle DB, PL/pgSQL, PostgreSQL, MySQL.
- **Web technologies:** Servlet/JSP, JasperReports, GWT, HTML, CSS.
- **Other:** SVN, Git, Maven, LaTeX, OpenCV.

## IDIOMS

**Portuguese** (mother tongue), **English** (B2).