

Sergio Peignier

Curriculum Vitae

Formation

- 2015 Advanced Lecture Course on Computational Systems Biology, *COMPSYSBIO spring school*, Aussois, France.
- 2015–2016 **Second year PhD in Computer Sciences**, École doctorale Infomath, INSA, INRIA LIRIS, Lyon, France.
- 2014–2015 **First year PhD in Computer Sciences**, *École doctorale Infomath, INSA, INRIA LIRIS*, Lyon, France.
- 2013–2014 **Engeneer degree in Bioinformatics and Modeling**, *Institut National de Sciences Appliquées (INSA)*, Lyon, France, Bioinformatics and Modeling.

 Jury's congratulations
- 2013–2014 **Master in Fundamental Computer Sciences**, *École Normale Supérieure*, Lyon, France, Complexe systems specialty.
 - 2012 **Seminar of formal logic and history of formal logic**, *Universidad Catolica Boliviana La Paz*, La Paz, Bolivia.

 Certificate of attendance
 - 2008 **First semester of engeneer in Telecommunication**, *Universidad Franz Tamayo*, La Paz, Bolivia.

Wating for courses at INSA de Lyon.

2008 **Bachelor degree**, *Lycée Franco-Bolivien Alcides d'Orbigny*, La Paz, Bolivie, specialty physics.

Jury's congratulations

Work Experience

Lectures

- 2014–2016 **Lecture of modeling of biological systems**, *modeling and MATLAB*, INSA, Lyon. Third year department of Bioinformatics and Modeling (BIM) (6 hours)
- 2014–2016 **Lectures of Computer Sciences**, *Data Bases and SQL*, INSA, Lyon. Third year department of Bioinformatics and Modeling (BIM) (26 heures)
- 2014–2016 Lactures of programing, *Python*, INSA, Lyon.

 Third year department of Bioinformatics and Modeling (BIM) (24 heures)

- 2012–2014 **Tutoring sessions**, *Passerelle program*, INSA, Lyon.
 - Academic support in mathematics and programing for first and second year students at INSA Lyon.

Internship

- 2016 **Collaboration visit of 8 weeks**, Faculty of Sciences Universidad Mayor de San Andrés (UMSA), La Paz, Collaboration work with Professeur Heriberto Castañeta Maroni.
 - Application of Chameleoclust, a subspace clustering algorithm developped during my PhD, to analyse chemical compounds described in a high dimensional space of physical and chemical descriptors.
- 2014 **6 months internship**, "Artificial Evolution and Computational Biology" (BEAGLE) team of the french "Institut National de Recherche en Informatique et Automatique" (INRIA) and the laboratory "Laboratoire d'InfoRmatique en Image et Systèmes d'information" (LIRIS), Lyon, Suppervised by Guillaume Beslon and Christophe Rigotti.
 - Development of a in-silico evolutionary model to study some features of evolution of evolution.
 - Development of data mining tasks that take advantage of these features.
- 2013 **Stage de 4 semaines**, Faculty of Sciences Universidad Mayor de San Andrés (UMSA), La Paz, Suppervised by Heriberto Castañeta.
 - o Implémentation of a Q-SAR software based on neural networks and genetic algorithms.
- 2013 **4 months internship**, "Genetic of Intra-Species Variations" team in the laboratory "Laboratoire de Biologie Moléculaire de la Cellule" (LBMC) ENS, Lyon, Supervised by Gael Yvert.
 - Developpment of a software to detect genetic regions involved in selective advange of yeast populations under selection pressure.
 - Analyse of data for Lesaffre company.
- 2012 **5 weeks internship**, Faculty of Sciences Universidad Mayor de San Andrés (UMSA), La Paz, Suppervised by Heriberto Castañeta.
 - o Development of an algorithm for RNA secondary structure prediction based on neural networks.
 - Short paper published in the "Bolivian Journal of Chemistry".

Computer skills

Basic Hardware, HTML, PASCAL

knowledge

Avancées Linux, Microsoft Windows, Internet, PYTHON, C, C++, R, MYSQL, SQLITE, MATLAB, JAVA, $\c LTFX$

Publications

Accepted Peignier, S., and Castañeta, H. (2015). Analysis of subspace clustering of molecules using paper Chameleoclust, an evolutionary algorith. Revista Boliviana de Química, 32(5), 110-120.

Conférences

- Accepted Abernot, J., Beslon, G., Peignier, S. and Rigotti, C.: A commensal architecture for evolving paper living instruments. In Conference on Computer Simulation of Musical Creativity
- Long abstract Peignier, S., Rigotti, C., and Beslon, G. Subspace Clustering for all Seasons. In EvoEvo accepted Workshop (satellite workshop of ECAL 2015)
 - Long paper Peignier, S., Rigotti, C., and Beslon, G. Subspace clustering using evolvable genome accepted structure. In Proceedings of the 2015 on Genetic and Evolutionary Computation Conference (pp. 575-582). ACM.

Séminaires

Présentation Événement BeyondLab maths-info : EvoEvo (Evolution of Evolution)(2016)

Séminaire Équipe DM2L: Subspace Clustering Using Evolvable Genome Structure (2016)

Présentation Journée des Thèses du LIRIS: Subspace Clustering Using Evolvable Genome Structure

d'un poster (2016)

Awards

2015 **Best Paper Award**, *Evolutionary Machine Learning*, International ACM conference on Genetic and Evolutionary Computation Conference, Madrid.

GECCO-2015

Language skills

English TOEIC Obtained in 2013

Portuguese B1 level Obtained in 2014

Italian B1 level Obtained in 2013

French Mother tongue Bilingual

Spanish Mother tongue Bilingual

Divers

- **Sciences and Art:** Creation and development of the $Informatique\ Sensorielle$ project. Participation in the 4th RADART meeting (2014).
- **Musique**: Regular practice of guitar and transverse flute. Validation of the first cycle in in the National Music School (Conservatorio Plurinacional de Musica) La Paz Bolivia.
- Dessin: Regular practice.
- **Sport**: Regular practice of climbing and running (participation in different runnings and half marathon runnings).
- Philosophy: Participation in different lecture of philosophy and epistemology as auditor.