Sergio Peignier

Curriculum Vitae

✉ *sergio.peignier.zapata@gmail.com*
⌂ *sergiopeignier.github.io*

Education

2014–2017	**Ph.D.**, *INRIA - LIRIS*, Lyon, France. Computer Science.
2013–2014	**M.Sci.**, *ENS*, Lyon, France. Fundamental Computer Science, specialisation in Complex Systems.
2009–2014	**Engineering degree**, *INSA*, Lyon, France. Bioinformatics and Modelling, **Honorable mention**.

Additional Training

2023	**Introduction to Philosophy I**, *Université Catholique de Lyon*, France.
2023	**Intensive English Seminar**, *Cambridge University (Erasmus+)*, UK.
2021	**Practical Reinforcement Learning**, *Higher School of Economics	Coursera*, Russia.
2021	**Practical Reinforcement Learning**, *Higher School of Economics	Coursera*, Russia.
2021	**Mathematics for Machine Learning**, *Imperial College London	Coursera*, UK.
2021	**Bayesian Methods for Machine Learning (honorable mention)**, *Higher School of Economics	Coursera*, Russia.
2019	**Intensive English Seminar**, *Cambridge University (Erasmus+)*, UK.
2017	**Statical Approaches to Automatic Text Mining**, *University Lumière*, Lyon 2, France.
2015	**History of Sciences**, *University Claude Bernard*, Lyon 1, France.
2015	**Advanced Lecture Course on Computational Systems Biology**, *COMPSYSBIO spring school*, Aussois, France.
2009	**Computer Assembly**, *CECOMP*, La Paz, Bolivia.

Work Experience

2018-Now	**Associate Professor**, *INSA - BF2i*, Lyon, France, Bio-Informatics Department. ○ Gene Regulatory Network Inference based on classification algorithms, ensemble learning, and self-expressiveness. ○ Computer Vision and Hyper-spectral Image Processing to detect aphids and powdery mildew ○ Machine Learning oriented modelling of bio-repellent activity of and essential oils
2018	**Postdoctoral Research**, *CMLA - ENS*, Cachan, France, MLMDA team, Mathilde Mougeot and Nicolas Vayatis. ○ Project: Industrial data analytics & Machine learning (industrial partners: Atos and CEA). ○ Research on Transfer-Learning methods and their industrial application.
2017	**Data Scientist**, *Atos Worldline*, Lille, France, High Performance and Volume R&D Team. ○ Deep Learning Methods (LSTM and Autoencoders) for anomaly detection in time-series data. ○ Application to Toro Rosso F1 cars telemetry data for early detection of technical problems.

2016 **Visiting Researcher**, *Faculty of Sciences Universidad Mayor de San Andrés (UMSA)*, La Paz, Bolivia, Collaboration with Heriberto Castañeta Maroni.
- Analysis of high dimensional physical features of chemical compounds using Subspace Clustering.
- QSAR adsoprtion property.

2014–2017 **Ph.D. Research**, *INRIA - LIRIS*, Lyon, France, BEAGLE team, supervised by Christophe Rigotti and Guillaume Beslon.
- Evolutionary Subspace Clustering algorithm for dynamic data streams (SubMorphoStream).
- K-medians Subspace Clustering algorithm for static datasets (KymeroClust).
- Bio-inspired evolutionary Subspace Clustering algorithm for static datasets (Chameleoclust).
- Wi-fi signals analyser based on Evolutionary Algorithms (EvoWave).
- Evolutionary musical companion for dancers (EvoMove).

Awards and Grants

2023 **Scientific Distinction Medal**, INSA, Lyon.

2023 **Scientific Research Highlight**, *Early detection of downy mildew in vines based on machine learning and hyperspectral imaging*, INRAE, SPE Department.

2023 **Bonus Qualité Recherche (BQR) [Bonus to Research Quality]**, *NeuroInfo: Neuro-protection against Inflammation in Alzheimer's disease by Omega-3*, A. Lo Van and S. Peignier, 2 years grant, INSA Lyon.

2018 **Best Paper Award**, *Information Systems*, International ACM Symposium On Applied Computing.

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

Publications

Peer-Review Journal Articles

[1] **Peignier, S.**, Sorin, B. , Calevro, F. (2023) Ensemble Learning Based Gene Regulatory Network Inference. International Journal on Artificial Intelligence Tools.

[2] **Peignier, S.**, Lacotte, V., Duport, M. G., ... & da Silva, P. (2023). Detection of Aphids on Hyperspectral Images Using One-Class SVM and Laplacian of Gaussians. Remote Sensing.

[3] Lacotte, V., Dell'Aglio, E., **Peignier, S.**, ... & Da Silva, P. (2023). A comparative study revealed hyperspectral imaging as a potential standardized tool for the analysis of cuticle tanning over insect development. Heliyon.

[4] Schmitt, P., Sorin, B., Frouté, T., ... & **Peignier, S.** (2023). GReNaDIne: A Data-Driven Python Library to Infer Gene Regulatory Networks from Gene Expression Data. Genes.

[5] **Peignier, S.** & Calevro, F. (2023). Gene self-expressive networks as a generalization-aware tool to model gene regulatory networks. Biomolecules.

[6] Lacotte, V., Rey, M., **Peignier, S.**, ... & da Silva, P. (2023). Bioactivity and chemical composition of forty plant essential oils against the pea aphid Acyrthosiphon pisum revealed peppermint oil as a promising biorepellent. Industrial Crops and Products.

[7] Dell'Aglio, E., Lacotte, V., **Peignier, S.**, ... & Rebollo, R. (2023). Weevil carbohydrate intake triggers endosymbiont proliferation: A trade-off between host benefit and endosymbiont burden. Mbio.

[8] Huygens, C., Lopes, M. R., Gaget, K., Duport, G., **Peignier, S.**, ... & Callaerts, P. (2022). Evolutionary diversification of insulin-related peptides (IRPs) in aphids and spatiotemporal distribution in Acyrthosiphon pisum. Insect Biochemistry and Molecular Biology.

[9] Lacotte, V., NGuyen, T., Sempere, J. D., Novales, V., Dufour, V., Moreau, R., Pham, M., Rabenorosoa, K., **Peignier, S.**, ... & Lelevé, A. (2022). Pesticide-Free Robotic Control of Aphids as Crop Pests. AgriEngineering.

[10] Lacotte, V., **Peignier, S.**, Raynal, M., ... & da Silva, P. (2022). Spatial–spectral analysis of hyperspectral images reveals early detection of downy mildew on grapevine leaves. International Journal of Molecular Sciences **INRAE SPE Scientific Research Highlight**.

[11] **Peignier, S.**, Schmitt, P. & Calevro, F., (2021) Data-Driven Gene Regulatory Network Inference Based on Classification Algorithms. International Journal on Artificial Intelligence Tools.

[12] Zapata, P., & **Peignier, S.** (2021). Análisis interdisciplinario de artículos científicos referentes a la pandemia COVID-19. Revista de Investigación en Lingüística Teórica y Aplicada

[13] M. Ribeiro Lopes, N. Parisot, K. Gaget, C. Huygens, **Peignier, S.**, ... & Calevro, F., (2020) Evolutionary Novelty in the Apoptotic Pathway of Aphids. PNAS.

[14] A. Castellini, F. Masillo, M. Bicego, ... & **Peignier, S.**, (2019). Subspace Clustering for Situation Assessment in Aquatic Drones: a Sensitivity Analysis for State-Model Improvement, Cybernetics and Systems.

[15] **Peignier, S.**, & Zapata, P., (2019) Analysis of Fidel Castro Speeches Enhanced by Data Mining, Digital Humanities Benelux Journal.

[16] **Peignier, S.**, Rigotti, C., & Beslon, G. (2018). Evolutionary Subspace Clustering Using Variable Genome Length. Computational Intelligence.

[17] Abernot, J., Beslon, G., **Peignier, S.** & Rigotti, C. (2017). Evolving Instrument Based on Symbiont-Host Metaphor. Journal of Creative Music Systems.

[18] **Peignier, S.**, & Castañeta, H. (2015). Analysis of subspace clustering of molecules using Chameleoclust, an evolutionary algorithm. Revista Boliviana de Química.

[19] **Peignier, S.**, & Castañeta, H. (2012). Prediction of Optimal and Suboptimal Secondary Structure of RNA Molecules Using Artificial Intelligence. Revista Boliviana de Química.

Books

[1] **Peignier, S.** & Zapata P. (2017). Análisis del Discurso Socialista Latinoamericano basado en Inteligencia Artificial [Analysis of Latin-American Socialist Speech Based on Artificial Intelligence]. Instituto Internacional de Integración Convenio Andrés Bello.

Peer-Review Conference Articles

[1] **Peignier, S.**, & Zapata, P. (2023) Assessing Gene Regulatory Network Inference Algorithms Using Word Embeddings: A Novel Approach for NLP and Systems Biology Integration. Digital Humanities BeNeLux Conference

[2] **Peignier, S.**, Sorin, B., & Calevro, F. (2021) Gene Regulatory Network using Ensembles of Predictors. IEEE International Conference on Tool with Artificial Intelligence.

[3] Atiq, M., **Peignier, S.** & Mougeot, M. (2021) Budget Learning Based on Equivalent Trees and Genetic Algorithms. IEEE International Conference on Tool with Artificial Intelligence.

[4] Debs, N., **Peignier, S.**, Douarre, C., ... & Frindel, C. (2021) Apprendre l'Apprentissage Automatique: un Retour d'Expérience [Teaching Machine Learning: A Feedback]. Colloque de l'Enseignement des Technologies et des Sciences de l'Information et des Systèmes.

[5] **Peignier, S.**, & A. Foncelle. (2020) Analyzing Open Data to Support Democracy: a Study Case Inspecting Electoral Fraud in Bolivian General Elections. Digital Humanities BeNeLux Conference.

[6] Castellini, A., Masillo, F., Bicego, M., ... & **Peignier, S.** (2019). Subspace Clustering for Situation Assessment in Aquatic Drones. ACM Symposium on Applied Computing.

[7] Minvielle, L., Atiq, M. **Peignier, S.**, & Mougeot, M. (2019) Transfer Learning on Decision Tree with Class Imbalance. IEEE International Conference on Tool with Artificial Intelligence.

[8] **Peignier, S.**, Schmitt, P., & Calevro, F. (2019) Data-Driven Gene Regulatory Network Inference Based on Classification Algorithms. IEEE International Conference on Tool with Artificial Intelligence.

[9] **Peignier, S.**, & Zapata, P. (2018) What can Reveal 1018 Speeches of Fidel Castro? Digital Humanities BeNeLux Conference.

[10] **Peignier, S.**, Rigotti, C., Rossi, A., & Beslon, G. (2018) Weight-based search to find clusters around medians in subspaces. ACM Symposium on Applied Computing Data Mining Track. **Best Paper in Information Systems**.

[11] **Peignier, S.**, Rigotti, C., & Beslon, G. (2017) EvoMove: Evolutionary-based living musical companion. European Conference on Artificial Life.

[12] Abernot, J., Beslon, G., **Peignier, S.** & Rigotti, C. (2016) A commensal architecture for evolving living instruments. In Proceedings of the Conference on Computer Simulation of Musical Creativity.

[13] **Peignier, S.**, Rigotti, C., & Beslon, G. (2015) Subspace clustering using evolvable genome structure. ACM Genetic and Evolutionary Computation Conference. **Best Paper in Evolutionary Machine Learning**.

[14] **Peignier, S.**, Rigotti, C., & Beslon, G. (2015) Subspace Clustering for all Seasons. In EvoEvo satellite workshop of the European Conference on Artificial Life.

Technical Reports

[1] **Peignier, S.**, & Zapata, P. (2020). Frequent Itemsets and Clustering Unravel the Evolution of Evo Morales Discursive Strategies.

[2] **Peignier, S.**, (2017) Study of Telemetry Measures for Toro Rosso Formula One Racing Team. Atos Worldline Confidential Technical Report

[3] Abernot, J., Beslon, G., **Peignier, S.** & Rigotti, C. (2016) Deliverable 5.2 EvoEvo project. FP7 funding.

[4] Abernot, J., Beslon, G., **Peignier, S.** & Rigotti, C. (2016) Deliverable 5.1 EvoEvo project. FP7 funding.

Posters

[1] Huygens, C., Ribeiro Lopes, M., Duport, G., Gaget, K., **Peignier, S.** , ... & Callaerts, P. (2022) Bacteriocytes and the interorgan communication network regulating physiology and metabolism of the pea aphid. Joint Congress of the International Society of Symbiosis and International Conference on Holobionts.

[2] Baa-Puyoulet, P., Parisot, N., **Peignier, S.**, Calevro, F., & Charles, H. (2022) From genomes to metabolism reconstruction: companion collections of databases to study symbiotic interactions between insects and their bacterial symbionts. Joint Congress of the International Society of Symbiosis and International Conference on Holobionts.

[3] Balmand, S., Ghanem-Debbache, S., Rivard, C., **Peignier, S.**, , ... & Zaidman-Rémy, A. (2022) Advanced microscopy tools unravel bacterial "pipelines"that enhance carbohydrates uptake by endosymbionts in cereal weevil. Joint Congress of the International Society of Symbiosis and International Conference on Holobionts.

[4] Montes de Oca, A., Kalogeratos, A., **Peignier, S.** & Mougeot, M. (2021) Implementation and Tuning of Neural Decision Trees. Industrial Data Analytics and Machine Learning - Centre Borelli.

[5] Minvielle, L., Atiq, M., **Peignier, S.** , Mougeot, M. & Vayatis., N. (2018) Transfer Learning to Detect Falls. CMLA - ENS Paris-Saclay, Transfer Learning Summer School.

[6] Atiq, M., Minvielle, L., **Peignier, S.**, Mougeot, M. & Vayatis., N. (2018) Transfer Learning on Equivalent Decision Trees. CMLA - ENS Paris-Saclay, Transfer Learning Summer School.

[7] **Peignier, S.** (2016) Subspace Clustering Based On Bio-Inspired Evolutionary Algorithm. LIRIS, Journée des Thèses du LIRIS.

Oral Presentations

Invited Talks

[1] **Peignier, S.** (2023) Practical workshop on embedding, clustering and classification of molecular structures in Python. Natural Sciences Faculty at Universidad Mayor de San Andrés, La Paz, Bolivia.

[2] **Peignier, S.** (2023) Practical workshop on gene regulatory networks inference in Python using the GReNaDIne Library. Natural Sciences Faculty at Universidad Mayor de San Andrés, La Paz, Bolivia.

[3] Lacotte, V., Rey, M., **Peignier, S.**, ... & da Silva, P. (2023) Bioactivity and chemical composition of forty plant essential oils against the pea aphid Acyrthosiphon pisum revealed peppermint oil as a promising biorepellent. INFECTIOTRON seminar MAP, INSA, Lyon, France.

[4] **Peignier, S.**, Parisot, N., & Calevro, F. (2022) Gene regulatory networks: Use of machine learning methods for the reconstruction and modelling of developmental gene networks in insect bacteriocytes. First DIGIT-BIO Metaprogram seminar, INRAE, Lyon, France.

[5] Calevro, F., Parisot, N., & **Peignier, S.** (2022) Gene regulatory networks: Inference methods and biological issues in the aphid model. First SPE Plant Health and Environment - numerical meeting, INSA, Lyon, France.

[6] Lacotte V. & **Peignier, S.** (2021) Development of a Hyperspectral Aphid Database. ANR - GreenShield meeting, CNRS, Lyon, France.

[7] **Peignier, S.** (2018) The Biological Way of Transfer Learning. Transfer Learning Summer School, CMLA - ENS, Paris-Saclay, France.

[8] **Peignier, S.** (2017) Mining of dynamic and static data by means of evolutionary subspace clustering algorithms. Electrical Engineering Department UMSA, La Paz, Bolivia

[9] **Peignier, S.** (2017) Introduction to natural language processing and artificial intelligence-based data mining. Linguistics Department UMSA, La Paz, Bolivia.

[10] **Peignier, S.** (2017) Subspace Clustering Using Bio-Inspired Algorithms. LIRIS, DM2L, Lyon, France.

[11] **Peignier, S.** (2016) EvoEvo (Evolution of Evolution). BeyondLab Math-Info event - Industrial transfer event, Lyon, France.

[12] **Peignier, S.** (2016) Subspace Clustering Using Evolvable Genome Structure. LIRIS, DM2L, Lyon, France.

Contributed Talks

[1] Parisot, N., Ribeiro Lopes, M., **Peignier, S.**, ... & Callaerts, P. (2023) A genome-wide annotation of transcription factors in the pea aphid, Acyrthosiphon pisum, and the related database, ATFdb. French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA), Lyon, France.

[2] **Peignier, S.**, Cruché, E., Pauliat, E., ... & Calevro, F. (2023) Acyrthosiphon pisum tissue-specific gene regulatory network inference. French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA), Lyon, France.

[3] Lacotte, V., Rey, M., **Peignier, S.**, ... & da Silva, P. (2023) Repellent Anti-insect Net Based on Biopolymer / Plant Essential Oil Blend as an Alternative to Conventional Chemical Pesticides. INRAe SPE Ph.D. students conference, Lyon, France

[4] Chabrier, L., Crombach, A., **Peignier, S.**, & Rigotti, C. (2022) Semi-supervised learning for tree-based regressors to improve the prediction of the interactions between genes. In Symposium MaDICS, Lyon, France.

[5] Baa-Puyoulet, P., Parisot, N., **Peignier, S.**, ... & Charles, H. (2022) From genomes to metabolism reconstruction: companion collections of databases to study symbiotic interactions between insects and their bacterial symbionts. French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA), Lyon, France.

[6] Ribeiro Lopes, M., Parisot, N., **Peignier, S.**, ... & Calevro, F. (2021) The Inhibitor of APoptosis (IAP) gene family in aphids: between expansion and functional diversification. French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA).

[7] Lacotte V., & **Peignier, S.** (2021). Detection of aphids by hyperspectral imaging under laboratory conditions. French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA).

Other Talks

[1] **Peignier, S.** (2017) Presentation to IT manager board from Toro Rosso F1 (customer).

[2] **Peignier, S.** (2017) Presentation to commercial manager board from Atos Italy (commercial partner).

Open-Source Software

[1] **Peignier, S.** (2023) GXN: Generalization-aware self-eXpressive Networks inference, PyPi, `https://pypi.org/project/GXN/`.

[2] **Peignier, S.** (2020) GReNaDIne: Data-Driven Approaches to Infer Gene Regulatory Networks, PyPi, `https://pypi.org/project/GReNaDIne/`.

[3] **Peignier, S.** (2019) DPD: Dendrogram Prototypical Discourse Generator, PyPi, `https://pypi.org/project/DPD/`.

[4] **Peignier, S.** (2017) SubCMedians: Subspace Clustering based on K-medians, PyPi, `https://pypi.org/project/SubCMedians/`

[5] **Peignier, S.** (2017) SubCMedians: Subspace Clustering based on K-medians (Knime-Java package) `https://sergiopeignier.github.io/software/SubCMedians_JAR_Archive.zip`.

[6] **Peignier, S.** (2016) EvoWave: Wifi Context Analysis based on Subspace Clustering, `https://sergiopeignier.github.io/software/EVOWAVE_PACKAGE.zip`

[7] **Peignier, S.** (2016) Chameleoclust+ Evolutionary Subspace Clustering, `https://evoevo.liris.cnrs.fr/chameleoclust/`.

Other Academic Activities

Reviewing Activities

2024 ACM/SIGAPP Symposium on Applied Computing

2023 iScience Journal (IF = 6.064)

2023 Frontiers in Microbiology Journal (IF = 6.064)

2023 Big Data and Cognitive Computing Journal (IF = 3.9)

2023 Entropy Journal (IF = 2.738)

2023 Applied Sciences Journal (IF = 2.838)

2023 Agriculture Journal (IF = 3.408)

2023 ACM/SIGAPP Symposium on Applied Computing

2022 Mathematics Journal (IF = 2.84)

2022 Electronics Journal (IF = 2.69)

2022 Applied Sciences Journal (IF = 2.838)

2022 Information Sciences Journal (IF = 6.795)

2022 Journal of Artificial Intelligence Research (IF = 2.77)

2022 F1000 Research Taylor & Francis Journal (IF = 2.3)

2022 ACM/SIGAPP Symposium on Applied Computing

2021 Reports Journal (IF = 4.379)

2021 Information Sciences Journal - Elsevier (IF = 5.524)

2019 Digital Humanities BeNeLux Conference.

Editorial Activities

2023 Editorial Board member of the "Editorial Salud, Ciencia y Tecnología" [Editorial Health, Science and Technology] journal - "Data and Metadata" issue, Buenos Aires, Argentina.

Conference/Workshop Organisation

2023 Member of the organisation of the 13th French Network for the Adaptive Biology of Aphids and Associated Organisms (BAPOA) network meeting, INSA, Lyon, France.

2022 Moderator of the "Artificial Intelligence in Life Sciences" workshop: Can we (and how) detect cis-regulatory DNA motifs in gene transcription?, First DIGIT-BIO Metaprogram seminar, Lyon, France.

Jury

2023 **Catalina Gonzales Gomez**, *Development of new statistical models for estimating connectivity between transcriptomic signatures.*, Ph.D. Monitoring Committee, Signia Therapeutics, VirPath, Université Lyon I, France.

2022 **Mounir Atiq**, *Elderly monitoring using decision trees under domain shifts and computational resource constraints*, Ph.D. jury, ENS, Paris-Saclay, France.

Mentoring

2021–Now **Lisa Chabrier**, *Delta-Regulons Inference*, Ph.D. supervision, INSA, Lyon, France.

2022 **Erwan Cruché**, *Rashomon effect in the inference of Gene Regulatory Networks*, M1 internship, INSA, Lyon, France.

2022 **Elea Pauliat**, *Gene Regulatory Networks in Neuro-Inflammation in Alzheimer's Disease, in collaboration with M. De Pittà and A. Lo Van* , M1 internship, INSA, Lyon, France.

2022 **Timothée Frouté**, *Inference of gene expression regulation networks in an insect crop pest, Co-advisor with N. Parisot*, M2 internship, Université Lyon I, France.

2021 **Lisa Chabrier**, *Preprocessing Techniques for Arboreto Gene Regulatory Network Inference, Co-advisor with C. Rigotti and A. Crombach*, M2, Sorbonne-Paris, France.

2020 **Baptiste Sorin**, *Gene Regulatory Network based on Ensemble Learning*, M1 internship, INSA, Lyon, France.

2020 **Mélanie Sawaryn**, *Text Mining and Automated Graph-Based Summaries*, M1 internship, INSA, Lyon, France.

2019 **Pauline Schmitt**, *Gene Regulatory Network based on Classification*, M1 internship, INSA, Lyon, France.

Teaching

5th Year Bioinformatics and Modelling Dept. (Master 2)

2018–Now **Stochastic Processes**, INSA, Lyon.

2018–Now **Projects Supervision**, INSA, Lyon.

4th Year Bioinformatics and Modelling Dept. (Master 1)

2018–Now **Gene Regulatory Network Inference**, INSA, Lyon.

2020–Now **String-Searching Algorithms**, INSA, Lyon.

2018–Now **Artificial Intelligence**, INSA, Lyon.

2018–Now **Software Development Project**, INSA, Lyon.

2018–2020 **Theoretical Computer Sciences and Graph Theory**, INSA, Lyon.

2018–2020 **Software Deployment (Docker)**, INSA, Lyon.

3th Year Bioinformatics and Modelling Dept. (License 3)

2020–Now **Introduction to Mathematics (Differential Equations)**, INSA, Lyon.

2020–Now **Introduction to Computer Sciences (Data-Mining)**, INSA, Lyon.

2018–Now **Linear Algebra and Matrix Analysis**, INSA, Lyon.

2018–Now **Data Bases and SQL**, INSA, Lyon.

2014–2016 **Modelling of Biological Systems using MATLAB**, INSA, Lyon.

2014–2016 **Algorithmic and Programming on Python**, INSA, Lyon.

Academic tutoring in mathematics and programming (License 1 and 2)

2012–2014 **Academic Tutoring**, *Passerelle Program*, INSA, Lyon.

Technical skills

OS	Linux, Microsoft Windows, OSX
Programming	Python (scikit-learn, scikit-image, keras, tensorflow, networkx, pandas, numpy, seaborn), C, C++, R, Matlab, Java, LaTeX, html, CSS
Databases	MySQL, SQLite, Neo4J

Language Skills

French (native), **Spanish** (native), **English** (Fluent)

Portuguese (Very good command, B1 2014), **Italian** (Good command, B1 2013)

Extramural Activities

2018 Contribution to the Data Analytics Post website (`https://dataanalyticspost.com/`) from the MVA master at ENS Paris-Saclay.

2014 Development of the "Informatique Sensorielle" project for artistic exploration using Neural Networks. Participation in the 4th RADART meeting.