

Hugo Cisneros

PERSONAL DATA

Website: <https://hugocisneros.com> | GitHub: <https://github.com/hugcis/>
LinkedIn: <https://www.linkedin.com/in/hugo-cisneros-04347212b/>

WORK EXPERIENCE

- Apr - Sep 2019 | **CIIRC (Czech Institute of Informatics, Robotics and Cybernetics) Research Intern**, Prague
Under the supervision of Tomas Mikolov (Facebook AI). Studied emergence, complexity and spontaneous organization in complex systems and their applications to Artificial intelligence.
- Mar - Sep 2018 | **INRIA and CNRS (LIMSI) Research Intern**, Paris
Under the supervision of Xavier Tannier and Ioana Manolescu. Built a software for extracting and integrating multiple data sources with **NLP and data processing algorithms** for data journalism. Worked with journalists from *Le Monde (Les Décodeurs)* on automating their data processing pipelines and using NLP for their investigations. Reviewed literature on **machine learning in graphs, automatic knowledge base construction and natural language processing for fact checking**.
- Jun - Sep 2017 (Part-time) Oct 2017 - Mar 2018 | **Aiden.ai (start-up) Software engineering and Machine Learning Research Intern**, London
Worked on building an AI powered virtual colleague for Marketing analysts based on Natural Language Processing. Participated in implementing the chat interface and the Natural Language recognition system with **JavaScript**. Implemented Machine learning algorithms with **Python** for predicting marketing data, classifying and clustering users.
- Sep 2016 - Feb 2017 | **ENS Ulm, Kastler-Brossel Laboratory Research assistant**, Paris
Light control and propagation in amplified multimode fibers
Implemented and optimized finite elements simulations with **Python** and **Matlab**. Performed high performance computing on scientific calculation clusters. Worked with a PhD candidate on building a tool for optimizing the propagation of a light beam in optical fibers.

EDUCATION

- Current* | PhD Student **INRIA, CIIRC CTU¹**, Paris & Prague
Nov 2019 | **Unsupervised learning with Complex Systems and Evolution**
- Sep 2019 | MVA Master in Machine Learning and Applied Mathematics, **ENS Paris Saclay**, Paris
Sep 2018 | Relevant Coursework: Convex Optimization, Probabilistic Graphical Models, Computer Vision, Reinforcement Learning, Deep Learning, Speech and Natural language processing, Kernel Methods, Biostatistics, Theoretical Foundations of Deep Learning
- Sep 2018 | Master of Science in Engineering, **Mines ParisTech**, Paris
Sep 2015 | Specialization: Computer Science - (3.7 GPA)
Relevant Coursework: Machine Learning, Probabilities, Statistics, Programming
- Aug 2015 | Preparatory class for *Grandes Ecoles* **Lycée Stanislas** (Paris) MPSI and MP*
Sep 2013 | Bachelor's Degree in Mathematics and Physics, national competitive exam for entering engineering school.
- Aug 2013 | Scientific Baccalauréat (High school diploma in Maths, Physics and Life Sciences) - High distinction

PUBLICATIONS

Cisneros, H., Sivic, J. & Mikolov, T. **Evolving Structures in Complex Systems**. in 2019 IEEE Symposium Series on Computational Intelligence (SSCI) 230–237 (IEEE, 2019).

Cisneros, H., Sivic, J. & Mikolov, T. **Visualizing computation in large-scale cellular automata**. Artificial Life Conference Proceedings 32, 239–247 (2020).

PROJECTS

- Jun-Aug 2018 | Participated in the n2c2 shared task of Harvard Medical School *Cohort Selection for Clinical Trials* in a joint team from AP-HP and LIMSI. Implemented **weakly-supervised and transfer learning methods for Medical NLP** (Keras). Finished 2nd among 30 teams.
- Jan 2018 | Built a Machine Learning based tool for discovering and matching similar arXiv papers based on similarity measures including **word embeddings-based similarities** of their abstract and **co-authorship graph distance**.
- Feb 2017 | Implemented a multi-currency blockchain in Python with a team of 9 people (Cryptography, network programming, team software development)

LANGUAGES

ENGLISH:	Fluent	SPANISH:	Intermediate
FRENCH:	Mother tongue	JAPANESE:	School level

COMPUTER SKILLS

Advanced: Python (Tensorflow, Pytorch, Django), Matlab, Java, Javascript (Node.js, Typescript and Web), \LaTeX
Basic: Scala, Ruby, C++, C

INTERESTS AND ACTIVITIES

- Mathematics, Statistics and Probabilities
- Technology, Open-Source, Programming
- Running (weekly practise), Fencing, Piano, Guitar