

CONTACT

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WORK EXPERIENCE

- Summer 2018* | Machine Learning Engineer for the Siri Speech team in Cheltenham, UK.
Conception and implementation of state-of-the-art neural network architectures for speech recognition.
- Summer 2017* | Research Scientist at the Big Data Research department of AT&T Shannon Lab
Conception and implementation of Generative Adversarial Networks (GANs) over text data, for use in a Adaptive Dialog Assistant System.
- Fall 2012 - Present* | Research Assistant at the CUNY Graduate Center, under the supervision of Pr. Michael Mandel at the [Brooklyn College Speech Lab](#), and of Pr. Andrew Rosenberg at the Speech Lab @ Queens College
Research on Adversarial Attacks and Defense of Neural Networks, the use of Recurrent Neural Networks, Reservoir Networks, and prosodic information for Audio Source Separation, Natural Language Processing.
Conception and writing of published scientific papers
- Spring 2016 - Present* | Adjunct Lecturer at Hunter College, CUNY
Teaching of advanced algorithms and data structures, their design and analysis. Supervision of programming project for CS majors and minors.
Conception of course material and examination.
- JULY - DEC 2011* | Research Engineer at the [Aging in Vision and Action Lab](#) in Paris
(Formerly the Computational Neuroscience Lab ANC of the UPMC)
Research on the neural bases of active exploratory behavior in rats
Conception of a model of the rat brain and implementation in C++
Integration of the model in the [ISIR](#) lab platform, [SFERES](#)
Improvement of the model's performances by evolution and genetic algorithm
Analysis and validation of the scientific hypothesis
- 2008 - 2011* | Research projects: design and development
Boosting algorithm for automated text recognition, in Octave
Collision detection using multi-agent programming, in Java
Markov decision processes for an improved AI in Starcraft video game, in C++ and XML
Power series calculation using lazy evaluation, in DrScheme
Perceptron for learning virtual soccer players, in Java

EDUCATION AND DEGREES

- Fall 2012 - Present* | Doctoral Program in Computer Science at the City University of New York, member of the IGERT *From Data to Solutions* program of Columbia University
- 2011* | **Master's Degree in Computer Science** from Université Pierre et Marie Curie, Paris 6, specialized in Artificial Intelligence and Decision theory
- 2009-2011* | Master cursus in Computer Science at Université Pierre et Marie Curie, Paris 6, specialized in Artificial Intelligence, learning agents and decision theory
- 2009* | **Undergraduate Degree in Math and Computer Science**, from Université Pierre et Marie Curie, Paris 6
- 2008-2009* | Undergraduate of Math and Computer Science, City College Of New York
- 2006-2008* | Undergraduate of Math and Computer Science, from Université Pierre et Marie Curie, Paris 6

WORKS & PUBLICATIONS

- 2018 [Enhancement of Spatial Clustering-based Time-frequency Masks using LSTM Neural Networks](#)
- 2018 [Improved MVDR Beamforming Using LSTM Speech Models to Clean Spatial Clustering Masks](#)
- 2017 [Combining Spatial Clustering with LSTM Speech Models for Multichannel Speech Enhancement](#)
- 2016 [Linguistically-Motivated Features for Language Recognition](#)
- 2015 [Speech Lab @ Queens College: Language Recognition Evaluation 2015](#)
part of the 2015 NIST Language Recognition Evaluation Plan
- 2014 [Reservoir Computing: A New Paradigm for Neural Networks: A Survey](#)
Second Examination of the CUNY Graduate Center Computer Science Program
- 2013 [Let Me Finish: Automatic Conflict Detection Using Speaker Overlap](#)
published in Proceedings - InterSpeech 2013
- 2012 [Exploratory Behaviour Depends on Multisensory Integration during Spatial Learning](#)
published in Artificial Neural Networks and Machine Learning - ICANN 2012

ADDITIONAL INFORMATION

- Interest in highly reproducible research as taught by [Pr. Stodden](#). [Jupyter](#) notebooks used in research.
- Personal git repositories: github.com/grezesf
- Native speaker of French and English. Basic knowledge of German.