Felix Grezes

Computer Science Researcher Curriculum Vitae

Contact

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Experience

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 the use of Recurrent Neural Networks, LSTM, Reservoir Networks, and prosodic information for Natural Language Processing and Speech and Noise Separation. Conception and writing of published scientific papers.

Spring 2016 - Current

Adjunct Teacher at Hunter College, CUNY

Teaching of advanced algorithms and data structures, their design and analysis. Supervision of programming project for CS majors and minors. Course and examination conception.

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.

Education and Degrees

Fall 2012 - Current 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 **Undergraduate Degree in Math and Computer Science**, from Université Pierre et Marie Curie, Paris 6

Publications

2016 Linguistically-Motivated Features for Language Recognition
submitted to InterSpeech 2016

2015 Speech Lab at Queens College: Language Recognition Evaluation 2015
part of the 2015 NIST Language Recognition Evaluation Plan

2014 Reservoir Computing for Neural Networks (a survey)
Second Examination of the CUNY Graduate Center Computer Science Program

2013 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.
- Native speaker of French and English. Basic knowledge of German.