Felix GREZES   Curriculum Vitae

CONTACT

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WORK EXPERIENCE

Fall 2012 - Current	**Research Assistant for the Speech Lab @ Queens College** Research on the use of Recurrent Neural Networks, Reservoir Networks, and prosodic information for Natural Language Processing Conception and writing of published scientific papers
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 during studies, 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
2008-2009	**Commercial Demonstrator for Edolone Marketing** Direct interaction with clients Travels throughout France and coordination with local partners

TEACHING EXPERIENCE

2009-2011	**Mathematics and English teacher for Academia** Individual tutoring of 15 students aged 12-17 Training for Baccalauréat and Brevet (French graduation exams) Preparation of courses and work methods
SUMMER 2006	**Mathematics teacher at the Excellencia French Summer Camp** Group tutoring of students grade 6 through 10 Preparation and grading of exams Writing of full student report cards, for the families

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
2009-2011	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

Publications

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

Languages

FRENCH:	Native Language
ENGLISH:	Native Language
GERMAN:	Basic Knowledge

Skills

ACADEMIC	Expertise in Artificial Intelligence tools, including: Neural Networks, in particular Reservoir networks, a class of recurrent networks Data mining algorithms, single and multi-criterion classification Genetic, symbolic, statistical and logical learning algorithms Decision theory algorithms, for individual and group decision Adaptive multi-agent programming Algorithm complexity theory
TECHNICAL	Knowledge of professional programming languages: Java, C/C++, XML, MySQL Knowledge of scientific programming languages: Python, OCaml, Octave/Matlab, Prolog, Haskell Expertise in Artificial Intelligence and Natural Language Processing tools and libraries (OGER toolbox, NLTK)
TEACHING	Knowledge of the contents of math and computer science courses for grades K-12 and undergraduate college le Experience in giving tutoring lessons to individuals and groups, in French and English

Interests and Activities

- Interest in highly reproducible research as taught by Pr. Stodden. Jupyter notebooks used in research.

- Competitive chess player, member of the Lutèce Echecs club since 2000