

AGHILAS SINI

Research And Development Engineer (2 ans d'expérience)

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615 Rue du Jardin Botanique ◊ Villers les Nancy , 54600 France

SKILLS

Développement web Front

JavaScript, jQuery, Ajax
CSS3, Bootstrap 3, HTML5

Simulation/Calcule Numérique

Matlab, Octave

Gestion de Génération/ Scaffolding

Bower, Yeoman, Grunt, NPM

Machine Learning/Data Science/Robotic

DL4J, Theano, TensorFlow, R, ROS

Programming

Shell script, Windows Batch script, Jython
C, C++, Java, Python

Protocols & APIs

XML, JSON, SOAP, REST

Méthode / Analyse

Méthode UML, Agile(SCRUM)

Gestion de configuration/Industrialisation

Git, Maven3, Jenkins, Cobertura

EDUCATION

2014 **Master 2 - Artificial Intelligence, Pattern Recognition and Robotics**

University Paul SABATIER- TOULOUSE. France

2013 **Master 1 - Real Time Systems Engineering**

University Paul SABATIER- TOULOUSE. France

2011 **B.Sc - Control System and Automation**

University Mouloud MAMMERI- TIZI OUZOU. Algeria

EXPERIENCE

January 2016 - March 2016

Enseignant Vacataire

IUT Charlemagne, Université de Lorraine, Nancy. France

Principaux domaines d'intervention

- Introduction à la programmation Web - Front end
- Cours avancé en JavaScript, JQuery, Ajax, Rest.
- Mini Projet.

Environnement Technique

- JavaScript, JQuery, Ajax, JSON, Rest.

January 2016 - Present

Ingénieur de Recherche et Développement

LORIA-INRIA Nancy Laboratory. France

IFCASL Project Individualized Feedback for Computer-Assisted Spoken Language Learning

Principaux domaines d'intervention

- Modification and re-synthesis of learner audio samples using teacher audio samples based on Pitch Synchronous Overlap and Add algorithm
- Feedback to correct devoicing of final consonants in French spoken by German learners
- Improving speech text alignment for language learning using deep neural network, training network with theano and decoding with DL4J (IFCASL Corpus)
- Extraction of speech features for pitch detection using deep neural network

Environnement Technique

- Java, Python, TensorFlow, Theano, R

November 2014 - December 2015

Ingénieur de Recherche et Développement

LORIA-INRIA Nancy Laboratory. France

ORTOLANG Project Open Resources and TOols for LANGuage

Principaux domaines d'intervention

- Maintenance évolutive d'outils d'analyse et traitement de signal de parole (JSnoori), d'alignement parole texte (JTrans), d'analyse sémantique-syntaxique (J-Safran),
- Re-factoring du code, de l'architecture.
- Développement de Portail web pour les outils.
- Ecriture de test unitaire, covering, d'intégration continue.

Environnement Technique

- Shell Script, Jython, Java, Linux.
- Jenkins (INRIA platform), Cobertura.
- Yeoman, Bower, NPM, Grunt, Git.
- HTML5, CC3, JavaScript.

Mars 2014 -Août 2014

Stage d'ingénieur de recherche

LORIA-INRIA Laboratory Nancy.

Principaux domaines d'intervention

- Control of a mobile robot movements to localize a sound source as quickly as possible. The belief about the source position is represented by a discrete grid and a dynamic programming algorithm was introduced to find the optimal robot motion minimizing the entropy of the grid.

Environnement Technique

- C/C++, Python
- Robot Audition HARK, ROS
- Kinect, TurtleBot, Linux.

PUBLICATION

E. Vincent, A. Sini and F. Charpillat, "Audio source localization by optimal control of a mobile robot", Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on, South Brisbane, QLD, 2015, pp. 5630-5634.

LANGUAGE

Kabyle (native) **French** (fluent) **Arabic** (fluent) **English** (intermediate) **German** (beginner)

REFERENCES

Yves Laprie	Research Director, CNRS Multispeech yves.laprie@loria.fr
Denis Jouvét	Research Director, INRIA Multispeech denis.jouvet@inria.fr