

# AGHILAS SINI

## Research And Development Engineer

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## Education

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2014	<b>Master 2 - Artificial Intelligence, Pattern Recognition and Robotics</b> <i>University Paul SABATIER- TOULOUSE. France</i>
2013	<b>Master 1 - Real Time Systems Engineering</b> <i>University Paul SABATIER- TOULOUSE. France</i>
2011	<b>B.Sc - Control System and Automation</b> <i>University Mouloud MAMMERI- TIZI OUZOU. Algeria</i>

## Professional Experience

### Engineer

Jan 2016	<b>Lecturer in Web Programming</b>
Mar 2016	<i>IUT Charlemagne, Université de Lorraine, Nancy.</i> - JavaScript, Ajax, JQuery, For second year post baccalaureat students
Jan 2016	<b>IFCASL Project Individualized Feedback for Computer-Assisted Spoken Language Learning</b>
present	<i>LORIA Laboratory Nancy.</i> - 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. - Extraction of speech features for pitch detection using deep neural network.
Nov 2014	<b>ORTOLANG Project Open Resources and TOols for LANGUAGE</b>
Jan 2016	<i>LORIA Laboratory Nancy.</i> - Development of syntactic-semantic analyser for spoken documents in French language - open source tool J-Safran released by LORIA. Includes dependency parser for oral speech and inclusion of inference of partial semantic role labels on top of syntactic parsing. - Tool for semi-automatic alignment of speech and textual corpus - open source tool JTRANS released by LORIA. Working on correction of speech text alignment around silence segments. - Interactive tool for speech signal processing and phonetics - open source tool JSnoori released by LORIA. Development of module for pitch estimation.

### Internship

Mar 2014	<b>Mapping of a sound environment for a mobile robot</b>
Aug 2014	<i>LORIA Laboratory Nancy.</i> • 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.

## Publications

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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.

## Computer Skills

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<b>Programming</b>	Shell script, Windows Batch script, Java, Jython, Python, C, C++
<b>Scientific</b>	Matlab/Octave, TensorFlow, Theano, R, ROS
<b>Web</b>	HTML, CSS, JavaScript, Ajax, JQuery
<b>Technologies</b>	XML, JSON, REST, Git, Ant, Maven, Vim, jenkins

## Language

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

## Referees

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<b>Denis Jouvét</b>	Research Director INRIA Multispeech denis.jouvet@inria.fr
<b>Yves Laprie</b>	Research Director CNRS Multispeech yves.laprie@loria.fr