Martin Miguel

http://liaa.dc.uba.ar
mmiguel@dc.uba.ar
+541131816018
Yatay 50, C1184ACB, CABA, Buenos Aires, Argentina

EDUCATION

PhD in Computer Science
Expected April 2021 - April 2016 | UBA, Buenos Aires, Argentina
Advisor: Diego Fernandez Slezak - LIAA, DC, UBA, Buenos Aires, Argentina; ICC, CONICET-UBA, Argentina
Co-advisor: Mariano Sigman - LNI, UTDT, Buenos Aires, Argentina

BS + MS in Computer Science
December 2015 - April 2008 | UBA, Buenos Aires, Argentina

EXPERIENCE

ASSISTANT PROFESSOR | Universidad de buenos aires
Currently - April 2016
Assistant Professor of *Algorithms and Data Structures II*.

DATA SCIENTIST | Avenida.com
March 2016 - January 2016
Improvement of search engine configuration, implementation of *search-as-you-type* features and assistance in team management.

SOFTWARE ENGINEER | MateMarote
December 2015 - April 2015
Development of java backend infrastructure and javascript videogames for a neuroscientifically based educational software.

INTERN SOFTWARE ENGINEER | Google.com
April 2014 - January 2014
Development and extensions of testing frameworks for performance, end-to-end and regression tests.

JAVA PROGRAMMER | Despegar.com
December 2013 - August 2012
Development of components integrating a larger application system. Development of web applications and utility frameworks.

ASSISTANT PROFESSOR | Universidad de Buenos Aires
July 2012 - March 2011
Assistant Professor of *Algorithms and Data Structures I & II*.

JR. JAVA PROGRAMMER (J2ME / BLACKBERRY) | SenseByte
January 2010 - January 2009
Development of both stand-alone and client-server applications. Development of applications interfacing with non-standard hardware.

RESEARCH

PUBLICATIONS

Mate Marote: a BigData platform for massive scale educational interventions.
Martin A. Miguel
45-JAIIO, 2016, Buenos Aires, Argentina (ISSN: 2451-7569).

Inferencia de Tactus con Fundamentos Estadisticos para Tap-dancing.
Martin A. Miguel
44-JAIIO, 2015, Rosario, Argentina (ISSN: 2451-7585).

From beat tracking to beat expectation
Martin A. Miguel, Diego Fernandez Slezak, Mariano Sigman
(Under review) Music Cognition

IN PROGRESS
Martin A. Miguel, Diego Fernandez Slezak, Mariano Sigman
Paper describing an experimental setup for tapping used to measure synchronization of responses against the stimuli. The setup requires minimal not-specialized equipment.

IN PROGRESS
Martin A. Miguel, Diego Fernandez Slezak, Mariano Sigman
Paper describing evaluation of beat expectation model against experimentally captured responses of tapping.

SCHOLARSHIPS

PhD Grant | CONICET, Argentina
April 2021 - April 2016

COURSEWORK

GRADUATE

Calculus	9
Algebra	5
Probability and Statistics	10
Algorithms and Data Structures I	10
Algorithms and Data Structures II	10
Algorithms and Data Structures III	9
Computer System Architecture I	8
Computer System Architecture II	8
Operating Systems	10
Numerical Methods	10
Software Engineering I	7
Software Engineering II	9
Systems Networks	10
Database Systems	9
Logic and Computability Theory	9
Language Theory	10
Programming Paradigms	10
Neural Networks	9
Introduction to Speech Technologies	9
Game Theory	Assisted Only
Operating Systems Development	10
Machine Learning	10
Master's Thesis	10
Graduate GPA	9.14
Grade Scale	10

DOCTORATE

Introduction to Data Science
Data Science in R
Bayesian Inference
Integration of Knowledge Bases
Signal Processing