

Ricardo Faúndez-Carrasco

AI - machine learning researcher

date of birth

May - 24 - 1992

contact

1-27-5 Koishikawa
Bunkyo-ku, Tokyo,
112-0002,
Japan

08092877582

+(0034) 600394426

(not calls)

skype: ricardo.kleinlein

ricardokleinlein@gmail.com

ricardokleinlein.github.io

LinkedIn profile

languages

ESP mother tongue

ENG fluent (C1)

JPN basic (N5)

programming

Python

Java

C/C++

R

Matlab & Simulink

Bash

CSS3 & HTML5

L^AT_EX

skills

Responsability

Teamwork

Communication

Fast learner

Mathematical skills

Computer Vision

Speech Processing

HPC

Kalman filters

State-Space models

Summary

I am a physicist profoundly interested in Artificial Intelligence. Experience hands-on in Deep Learning in time series analysis both in speech treatment and medical data. Looking for research positions.

education

2015–2017 **M.Sc.** in Automation and Robotics Universidad Politécnica de Madrid
Deep Learning strategies for the enhancement of Automatic Speech Recognition architectures

This thesis explored different state-of-the-art techniques such as LSTM cells, word2vec embeddings and convolutional layers and their effect on an HMM-DNN ASR system. Graded 10/10, candidate to Honors.

2016–2018 **M.Sc.** in Computational and Mathematical Engineering Universitat Rovira i Virgili & Universitat Oberta de Catalunya
Prediction of Breast Cancer survival rates
Ongoing thesis: applying data mining and machine learning algorithms in order to predict the evolution of both survival rates and treatments' effectiveness on breast cancer patients.

2010–2015 **Bachelor** in Physics Universidad Autónoma de Madrid
Isotropic-Nematic-Liquid crystal phase transition: a lattice model
This thesis reported on Monte-Carlo simulations of liquid crystal's lattices undergoing phase transitions due to temperature or shape modifications. Graded 8.8/10.

experience

2017–Now **National Institute of Informatics - NII** Tokyo, Japan
Research Intern
Working on multi-model models trained and designed in a fashion so they can perform at the same time traditionally unrelated tasks, such as Speech Enhancement, Voice Conversion and Text-to-Speech Synthesis.
Pending of publishing our latest results in *INTERSPEECH*.

2017 **Escuela Técnica Superior de Ingenieros de Telecomunicación - UPM**
Madrid, Spain
Research Assistant
Focused Automatic Speech Recognition, doing research on different approaches based on Deep Learning to improve the accuracy of the whole system, at both acoustic and language level.

2015-2016 **Medicsen** London, United Kingdom
Research & Development
Development of the first fully functional and automatic pancreas for diabetic patients. In charge of building the algorithms and mathematical models of the disease from scratch. Main achievements:

- Glycemic curve predicted with **85%** accuracy on the 2-hours-ahead glycemic level from inputs on meal intake, insulin dose and exercise.
- **Patent:** MedicSen, 2016. Non-Invasive Artificial Pancreas, U.S. Application 50389, MED-001PR, filed January 2016.
- Co-speaker with Eduardo Jorgensen (MIT Innovator 2017) in REWORK Deep Learning in Healthcare Summit in London, April 2016.

2015	La Paz Hospital <i>Intern</i> Worked within the Radio-therapy and Nuclear Medicine Departments. Dealt with cancer treatments using Monte-Carlo simulations and denoising of medical images.	Madrid, Spain
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volunteering

2017	Collaborator in AILoveU Speaker at the Bussiness Institute (IE) in AILoveU Vol.2: "Siri's hearing aid" on the limitations of current Deep Learning technologies and its potential.	Madrid
2014	Collaborator in ESN-UAM In charge of cultural city tours around the city of Madrid.	Erasmus Students Network
2012	Board Member in AEGEE-Madrid Treasurer, Summer University organiser of this student organisation, based on student exchanges and non-formal training.	European Students Forum, Brussels
2012	Board Member of Séptimo Arte UAM Co-founder and Vice-president of this cinema forum student association.	Universidad Autónoma de Madrid

interests

professional: data science, neuroscience, quantum computing. **personal:** karate (1st Dan), meditation, basketball, travelling, beer tasting (awarded in a Prague brewery).