

EDUCATION

- University of Cambridge**, Department of Engineering CAMBRIDGE, UK
MPhil in [Machine Learning, Speech, and Language Technology](#) Oct 2016 – Sep 2017
- Coursework: Probabilistic Machine Learning (*distinction*), Statistical Pattern Recognition (*distinction*), Computer Vision, Reinforcement Learning & Decision Making, and Speech Recognition & Synthesis.
 - Projects & implementations: KAGGLE competitions in Regression, Classification & Density Modeling, Variational Autoencoder, TRUESKILL based probabilistic ranking, and Dialogue Systems.
- University of Oxford**, Mathematical Institute - New College OXFORD, UK
MMath in [Mathematics](#) Oct 2012 – Jun 2016
- Outcome: 2nd Upper Class with 69/100 GPA.
 - Main focus: Statistical & numerical methods for Theoretical Physics.
 - Awards: New College Sports and Culture Award (*May 2014*), New College Scholar (*Oct 2015*).
- Colegio Jesuitas Indautxu** BILBAO, SPAIN
Baccalaureate in [Science and Technology](#) Sep 2010 – Jun 2012
- Outcome: Honours with 92/100 GPA and 12.5/14 in PAU.
 - Awards: Bronze medal at Spanish Mathematical Olympiad (*Mar 2012*).

RESEARCH EXPERIENCE

- University of Cambridge** CAMBRIDGE, UK
Research Student – [Computational and Biological Learning Laboratory](#) Mar – Aug 2017
- Thesis project: "*Pathologies of Deep Sparse Gaussian Process Regression*" (📄).
 - Research areas: Deep Learning, Bayesian Optimization, and Bayesian Non-parametric models.
 - Proposed and implemented a greedy initialisation scheme for approximate inference in Deep Gaussian Processes that resolved regression pathologies on highly non-stationary datasets.
 - Supervisor: Dr. Richard Turner.
- Basque Center for Applied Mathematics (BCAM)** BILBAO, SPAIN
Research Intern – [Computational Mathematics Group](#) Jul – Sep 2014
- Mathematically proved the reliability of a mesh generation technique for Finite Element Methods to solve Partial Differential Equations, and implemented and tested this technique on 5 challenging settings.
 - Conclusions drawn from these experiments contributed to a conference article (📄).
 - Supervisor: Prof. Sergey Korotov.

SKILLS

- Computing Skills:**
- Programming languages: MATLAB (3 years), Python (2 years), C++ (1 year) and R (1 year).
 - Machine Learning Frameworks: Scikit-learn, TensorFlow, Theano, GPy, PyDial, and HTK tool-kit.
 - Others: Git, GitHub, Unix, Bash, Google Cloud Computing, L^AT_EX and Microsoft Office.
- Languages:** English (*fluent*), Spanish (*native*) and Basque (*B2 level*).

INTERESTS & ACTIVITIES

- Volunteering:**
- Slums Dunk NGO (NAIROBI, KENYA) – Teacher & Basketball coach Jun 2016
 - FIBA Basketball World Cup (SPAIN) – International volunteers group leader Aug 2014
 - Alboan NGO (BILBAO, SPAIN) – Community service Oct 2010 – Apr 2012
- University Societies:** Technology & Enterprise Club and Engineering Society at Cambridge; Invariant Society and Spanish Society (*treasurer*) at Oxford.
- Sports:** Basketball - Oxford & Cambridge university teams, Rowing - college boat, Skiing and Football.
- Hobbies:** Tech-blogging (*Vision-AI*), beer home-brewing and backpacking.