Francisco Girbal Eiras

e-mail: francisco.girbal@gmail.com

Education

University of Oxford (Oct. 2017 - Sep. 2018)

MSc Computer Science (Distinction)

Relevant courses: Computational Game Theory, Probabilistic Model Checking

EPFL (Sep. 2016 - Feb. 2017)

Swiss-European Mobility Program

Relevant courses: Applied Machine Learning, Image and Video Processing, Lab in Image and Signal Processing

Técnico Lisboa (Sep. 2013 - Jul. 2016)

BSc Electrical and Computer Engineering

Among the top 2% of the class (final grade 18/20)

Relevant courses: Algorithms and Data Structures, Signals and Systems

Experience

FiveAI (Sep. 2018 - Present)

Research Engineer

Working full time within the Motion Planning and Prediction team in Edinburgh, UK under the orientation of Dr. Ram Ramamoorthy.

Institute for Systems and Robotics Lisbon (Apr. 2017 - Sep. 2017)

Graduate Research Assistant

Orientation: Pedro Miraldo, PhD

Studied and developed new methods to perform pose estimation through vanishing points in general (central and non-central) omnidirectional cameras which lead to the publication of a paper in one of the top conferences in the field (CVPR'18).

Institute for Systems and Robotics Lisbon (Apr. 2016 - Sep. 2016)

Research Student (Undergraduate)

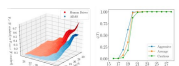Orientation: Prof Rodrigo Ventura, Tiago Veiga, PhD

Constructed modules for automatic gesture recognition using RGB-D cameras, from simple binary classification gestures (e.g. waving) to more complex ones (e.g. pointing estimation) and integrated them in a MOnarCH robot
as part of the INSIDE project.

Publications

Analytical Modeling of Vanishing Points and Curves in Catadioptric Cameras

P. Miraldo, F. Eiras, S. Ramalingam, CVPR 2018

To Err is Human: Designing Correct-by-Construction Driver Assistance Systems using Cognitive Modelling

F. Eiras, Master Thesis (University of Oxford)

Accomplishments

2016 - Academic Excelency Award for BSc (over 3 years)

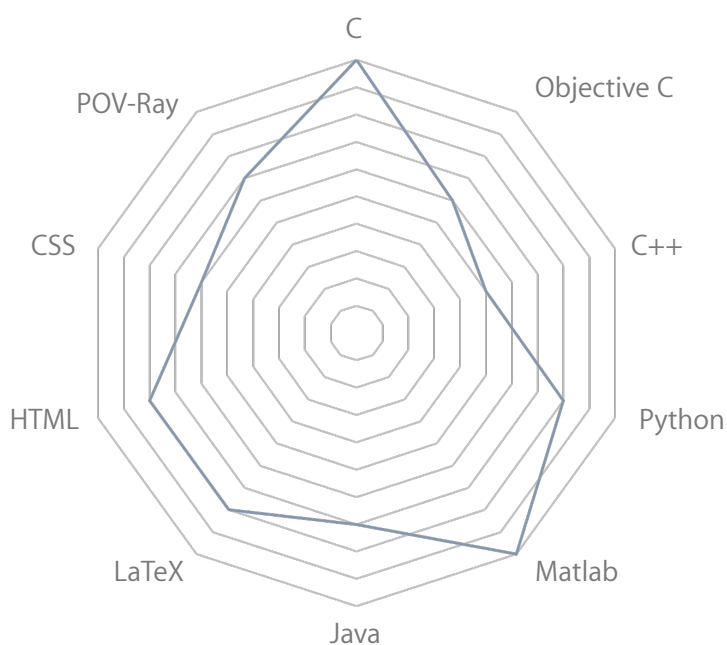2015/16 - Elected the Class representative for BSc and 3rd year

2013 - AFS International Scholarship worth $25,000

2013 - 3rd Place at the Delaware Science Olympiad in Data Analysis and Genetics

Language Skills

Portuguese	Native
English	Fluent (8.5 overall IELTS)
Spanish	Elementary
French	Elementary

Programming Skills

Interests

Research Interests: Computer Vision, Machine Learning, Formal Verification

Hackathons attended: LauzHack (2016), STARTHack (2017), Junction (2017), LauzHack (2018)

General interests: Economics, Reading, Tennis, Music, Documentaries, Traveling