Contactar

www.linkedin.com/in/camilo-fosco-990535b3 (LinkedIn)

Aptitudes principales

Machine Learning
Computer Vision
Data Analysis

Languages

French (Native or Bilingual)
Portuguese (Professional Working)
English (Native or Bilingual)
Spanish (Native or Bilingual)

Honors-Awards

Fulbright Scholarship
ARFITEC Scholarship
First Prize, health category and public vote, Buenos Aires Internet of Things 2015 competition
Diploma with Honors
Mention très bien (French high-school Diploma with Honors)

Camilo Fosco

Co-Founder and CTO at Memorable | PhD Candidate in Computer Science at Massachusetts Institute of Technology
Boston, Massachusetts, Estados Unidos

Extracto

Machine learning researcher interested in vision, transport and healthcare. Pursuing my EECS PhD at MIT, focusing on computer vision and cognitive science. Passionate about all things AI.

Experiencia

Memorable
Co-Founder and CTO
abril de 2021 - Present (2 años 1 mes)
Cambridge

Leading a SWAT team of researchers and engineers building ML models that optimize the cognitive impact of visual content.

MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)
PHD Candidate
septiembre de 2019 - Present (3 años 8 meses)
Cambridge

Researched topics at the intersection of computer vision and cognitive science at the Computational Perception and Cognition Lab.

Facebook
Research Intern
junio de 2020 - septiembre de 2020 (4 meses)
United States

Developed brain-inspired representations for deep learning-based video understanding. Worked at Facebook Reality Labs in collaboration with Facebook AI Research.

Google
Software Engineer Intern
junio de 2019 - agosto de 2019 (3 meses)
Mountain View, California

Developed deep learning models to categorize business storefronts from StreetView images. Built novel hierarchical approach to improve performance on classes with few examples. Part of the Bizview team (Google Maps).

MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)
Research Assistant
septiembre de 2018 - mayo de 2019 (9 meses)
Cambridge

- Developing video understanding models under Dr. Aude Oliva, focusing on action recognition and multi-modal embeddings.
- Potential applications: memorability prediction, video analogy understanding, audio/video generation.

Harvard University
Data Science Teaching Fellow
agosto de 2018 - diciembre de 2018 (5 meses)
Cambridge, MA

- Taught advanced sections of AC209a, a graduate-level data science course. The advanced sections introduced complex concepts and theoretical justifications to back up the main lecture's topics.
- Lectures given: Algebra and Hypothesis testing, Regularization methods, Decision trees and Ensemble methods, Neural networks for image analysis.

NVIDIA
Machine Learning Intern
mayo de 2018 - agosto de 2018 (4 meses)
Santa Clara, California

- Researched and developed new deep learning architectures for Video Understanding, particularly Human Action Recognition.
- Adapted state-of-the-art methods and implemented multiple developments from papers as recent as CVPR 2018.
- Developed novel deep architecture adapted to internal video data. Obtained state-of-the-art accuracy on open datasets.
- Best model surpassed state-of-the-art on HMDB51, a common open dataset for Action Recognition.
- Built 7 production-ready models with varying accuracy/speed trade-offs.
- Created full software suite from scratch for easy training, hyperparameter search and validation on video data.
- Worked with large GPU clusters and adapted models to perform massively parallel training and evaluation jobs.

- Analyzed and modified architectures to improve inference speed.

MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)
Research Assistant
febrero de 2018 - mayo de 2018 (4 meses)
Cambridge, Massachusetts

- Researched deep learning approaches to caption visual designs, advised by Zoya Bylinskii and Frédo Durand.
- Improved on importance prediction work by Bylinskii et al. with novel interpretations of state-of-the-art segmentation and saliency networks such as Deeplabv3+ (Chen et al 2018) and SAM (Cornia et al. 2016).
- Compiled 6-class dataset of 2000+ elements for visual design analysis by building a fast web scraper.
- Developed efficient method to detect and rank design elements by importance.

Tenaris
Computer Vision Research Engineer
2015 - enero de 2017 (2 años)
Argentina

- Designed and tested automated computer vision system for flaw detection on the surface of sucker-rod couplings (small metallic cylinders). Full project built from the ground up.
- Analyzed high precision scanning techniques for cylindrical surfaces.
- Researched and developed techniques for detecting particular flaws in noisy images.
- Performed camera calibration, lens testing and selection, and multiple machine vision lighting analysis.
- Implemented image processing techniques, including denoising, segmentation and object detection methods.
- Constructed dataset of 1500+ entries, engineered and extracted features for classification of flaw candidates in noisy images.
- Worked with SVMs, decision trees, regression models and neural networks.
- Work resulted in 101 page thesis, defended in front of jury and passed with highest mark.

Freelance
Game Developer
agosto de 2014 - diciembre de 2016 (2 años 5 meses)
Argentina

Game and framework development for clients or for fun. Relevant projects:
- EcoBochos: Designed and implemented Android trivia app for environmental education, as a freelance contract for the Renault Foundation. Conceived full software architecture. Coded in Java with libGDX.
- EvoSim: Built foundations for evolution-based sim game. Designed core methods for evolutionary algorithm, tested multiple mutation and crossover strategies and implemented NNs for game agent's brains. Coded mainly in Java.

Lycée Français Jean Mermoz
Robotics Teacher
abril de 2015 - julio de 2015 (4 meses)
Argentina

- Taught ~20 high-school students how to build line-followers that were showcased at a local fair.
- Lectured on topics such as Arduino boards, infrared sensors, DC motors, and basic programming.
- Gained experience on communicating technical ideas to non-technical audiences.

Educación

Massachusetts Institute of Technology
Doctor of Philosophy - PhD, Computer Science · (2019 - 2023)

Harvard University
Master of Engineering - MEng, Computational Science and Engineering · (2017 - 2019)

University of Buenos Aires
Engineer's degree, Electrical, Electronics and Communications Engineering · (2010 - 2016)

Lycée Français Jean Mermoz
Baccalauréat Sciences, Specialized in Mathematics · (2007 - 2009)