JUAN JOSÉ MADRIGAL MARTÍNEZ

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Mathematician interested in Educational Technology, willing to explore new ways to bring advanced Mathematics to the world. Especially gifted for

- Understanding and mastering Mathematics, interrelating all areas and branches
- Lecturing and teaching difficult or abstract concepts, both for beginners and experienced
- Remarkable quick learning

SKILLS

Programming Languages: Python, Java, Android **Version Control Systems:** Git & GitHub

Machine & Deep Learning: SciKitLearn, TensorFlow

Computer Vision: OpenCV

Operating Systems: Linux, Windows

Mathematics Softwares: SageMath, Mathematica

Web Design: HTML5 / CSS3 / JS, Angular4

Typesetting: LATEX

Languages: Native Spanish, Proficient English,

German and French

PROJECTS

People Detector & Tracker

Jun. 2017

- Designed **CV-based detector** for people buying in a shop
- Successfully implemented **real-time tracker** counting entering and leaving people

Angular4 Front-End of WardenRetail App

Jul. 2017

Successfully integrated Material Design and ChartJS Components

EXPERIENCE

Artificial Intelligence Engineer

Warden Automation | Feb. 2017 - Present

Designing object recognition and tracking algorithms

CEO of Mathifold Project http://mathifold.org/

Madrid | March 2014 - Present

[free, open-source online mathematics for students, teachers and workers]

- Leading 15+ collaborators including mathematicians, computer scientists and engineers
- Added 250+ posts including theory, exercises, animations and applets, among other useful materials
- Recorded **800+ users** and **12000+ views** in the last 3 months

Lecturer & Tutor at Faculty of Mathematics

UCM | Sept. 2014 - Present

- Lectured Intro to Mathematics, Linear Algebra, Real Analysis, Probability & Statistics, Algebraic Topology
- Taught and tutored 200+ students both for undergraduate and graduate courses

EDUCATION

Udacity Deep Learning NanodegreeUdacity | Aug. 2017 - Sept. 2017Udacity Machine Learning NanodegreeUdacity | Sept. 2016 - Feb. 2017Master in Advanced Mathematics9.81/10 - 3.75/4UCM | Sept. 2013 - Jul. 2014Degree in Mathematics9.92/10 - 3.87/4UCM | Sept. 2009 - Jul. 2013

AWARDS

National Graduation Award Extraordinary End of Studies Award Honourable Mention Gold Medal

Sciences | Spain

UCM

49th International Mathematics Olympiad, IMO | Madrid | 2008 44th Spanish Mathematics Olympiad | Valencia, Spain | 2008