Juan José Madrigal Martínez

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LinkedIn   GitHub   Kaggle   Udacity

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 Nanodegree   Udacity | Sept. 2017
Udacity Machine Learning Nanodegree   Udacity | Sept. 2016 - Feb. 2017
Master in Advanced Mathematics   9.81/10 - 3.75/4   UCM | Sept. 2013 - Jul. 2014
Degree in Mathematics   9.92/10 - 3.87/4   UCM | Sept. 2009 - Jul. 2013

Awards

National Graduation Award   Sciences | Spain
Extraordinary End of Studies Award   UCM
Honourable Mention   49th International Mathematics Olympiad, IMO | Madrid | 2008
Gold Medal   44th Spanish Mathematics Olympiad | Valencia, Spain | 2008