DIEGO MARTÍN

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EDUCATION

2015 – 2018 **M. Sc. Computer Science** — **Technical University of Munich (TUM), Germany**
Topics: Computer Vision, Artificial Intelligence, Algorithms and Data Structures. Grade: 1.5 (3.5 GPA eq.).

2011 – 2015 **B. Sc. Computer Engineering** — **University of Salamanca (USAL), Spain**
Semester abroad at the Ulm University of Applied Sciences. Grade: 7.89/10 (3.1 GPA eq.).

PROFESSIONAL EXPERIENCE

7/19 – Now **Research Engineer (Contractor)** — **Google on behalf of Randstad | Zurich**
I work on computer vision algorithms using Neural Networks in the Augmented Perception team.
`TensorFlow, Generative Adversarial Networks.`

4/19 – 6/19 **Computer vision intern** — **OMRON | Kyoto**
I worked on the reconstruction of 3D environments surrounding a robot to enable safe motion planning and navigation.
`C++, Boost, Eigen / OctoMap / OpenCV / OpenMP`

6/18 – 1/19 **Data Engineer** — **TrustYou | Munich**
I was responsible for the Meta-Review product, which aggregates a global database of hotel reviews and provides useful insights to hotel operators and travel sites such as Google, KAYAK, Booking or Hotels.com.
`Apache MapReduce / Apache Spark / scipy`

2/16 – 12/17 Part-time **Software Engineer** — **Motius | Munich**
I worked on multiple projects as a backend/frontend/mobile developer and technical lead. I also was the "Technical Evangelist", tasked with assessing new technologies and mentoring coworkers.
`Django / React Native / JS`

7/14 – 9/14 **Intern** — **Arsoft | Salamanca**
Development of Augmented Reality mobile applications using OpenCV and the Unity game engine.
`OpenCV for Android / Unity`

PROJECTS

10/17 – 6/18 Master's Thesis **Pose Estimation using Deep Learning for objects with ambiguities**
A common issue in pose estimation tasks is dealing with ambiguities (caused by objects that have the same appearance from different points of view, occlusions…). I implemented a novel approach to 3D monocular pose estimation that offers a metric of uncertainty by predicting multiple valid hypotheses in the presence of ambiguity. Accepted for ICCV 2019. (ArXiv: 1812.00287).
`TensorFlow / scipy stack`

10/16 – 4/17 **Aspect-Based Sentiment Analysis**
An interdisciplinary project in collaboration with the Center for Information and Language Processing at the Ludwig Maximilian University of Munich, I implemented several models for sentiment analysis on short texts, with particular focus on Recursive Neural Networks and Conditional Random Fields.
`Keras / Theano / CRFsuite` **Demo**: idp.martinarroyo.net

3/15 – 7/15 Bachelor's Thesis **A self-configured scalable cluster built on low-cost hardware**
I built software for a distributed system using Raspberry Pi boards, including a distributed deployer/debugger, autonomous OS installation and upgrade tools, a distributed cross-compiler, LED libraries, user management, access to the MPI library and a service discovery protocol to automate the connection between nodes.
`Raspberry Pi / Python / C/C++` **More information**: marcopolo.martinarroyo.net

LANGUAGES

Spanish - Native
English - Proficient
German - Proficient

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript
Data Science: (Py)Spark, MapReduce, scipy
Computer Vision: TensorFlow, Keras, OpenCV
Web/Mobile: Django, Tornado, React Native
Other: Docker, Git, Linux, SQL

NON-PROFIT

ACM USAL Student Chapter
Blackberry USAL Student Chapter
USAL Students' Union
National C.S. Students' Union (RITSI)