Heiko **Carrasco Huertas**

MSc. Student in Computer Science

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Education

PAIR Lab - University of Toronto   *Toronto, CA*

Visiting Student Researcher   *09/2021 - 03/2022*

Technische Universität Darmstadt   *Darmstadt, Germany*

M.Sc. in Computer Science   *06/2020 - ongoing*

- thesis topic: Optimal Sampling for Self-Paced Reinforcement Learning
- thesis supervisors: Pascal Klink, Prof. Jan Peters, Prof. Animesh Garg (University of Toronto)
- notable courses: "Deep Generative Models", "Deep Learning: Methods & Architectures", "Robot Learning"
- cGPA 3.7/4.0

Technische Universität Darmstadt   *Darmstadt, Germany*

B.Sc. in Computer Science   *10/2015 - 06/2020*

- thesis topic: Design and Formal Verifcation of a distributed consensus algorithm for ScalaLoci
- thesis supervisor: Prof. Guido Salvaneschi
- notable courses: "Foundations of Language Technology", "Statistical Machine Learning", "Scalable Data Management"
- GPA 3.0/4.0

Projects

SimuRLacra   *github.com/famura/SimuRLacra*

Library for RL and Robotics experiments

- development of a new **meta reinforcement learning algorithm** for Sim-2-Real
- **reworked API for usability/interoperability** and implemented extensive unit tests

ScalaLoci   *github.com/scala-loci/scala-loci*

Distributed Research Programming Language

- implementation and evaluation of the CHORD algorithm in Scala Loci
- proposed a design for a future automatic dynamic placement algorithm

Jobs

TU Darmstadt - Department of Computer Science   *Darmstadt, Germany*

Student Developer   *03/19 - 09/19*

- developed an open-source **Python** tool to generate web certificates; tool is currently **used by multiple German universities**
- created and maintained several **web applications** in **Go** and **Python** to support the teaching evaluation for the department
- coached three student teams in **agile software development** with **SCRUM** during the bachelor software engineering course

TU Darmstadt - Department of Computer Science   *Darmstadt, Germany*

Student Administrative Assistant   *07/17 - 11/21*

- administration and maintenance of the departmental educational and scientific computing resources
- evaluation for the faculty administration board on the usage of Matlab and associated tool kits
- hands-on experience with **Ansible**, **Gitlab**, **Kubernetes**, and **static site generators**

TU Darmstadt - Chair of Knowledge Engineering   *Darmstadt, Germany*

Undergraduate Research Assistant   *08/16 - 06/17*

- administration and extension of the **research SLURM cluster**
- advised in the planning of the **Lichtenberg II supercomputer** (**100th largest supercomputer** in the world in 2019)

Skills

Programming	Python, Go, Rust, Scala, Java, PHP
System Administration	Kubernetes, Docker, Ansible, Git, SLURM, MySQL, PostgreSQL, Redis
Machine Learning	Pytorch, Numpy, Pandas, Matplotlib, JAX
Languages	German (fluent), English (fluent), Spanish, French