

Jeremias Rodriguez

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EDUCATION

Master's Degree in Computer Science 2017-2022

Universidad Nacional de Rosario, Argentina

Grade average: 9.50 out of 10

Title: "Licenciatura en Ciencias de la Computacion"

Bachelor's Degree 2014-2017

Universidad Nacional de Rosario, Argentina

Grade average: 9.52 out of 10

Title: "Bachiller universitario en Cs. Exactas"

AWARDS

- Second highest GPA amongst all 2022 FCEIA graduates
- Eight highest GPA amongst all 2022 UNR graduates

PUBLICATIONS

- *Trajectory-Based SLAM for Indoor Mobile Robots with Limited Sensing Capabilities.* Chen, Rodriguez, Karimian, Okerholm Hutlin et al (iRobot) - IROS 2023 (WeAT14.7)

SUMMER SCHOOLS

- INVICTA Spring School (ML & Patterns) - March 2024. Porto, Portugal.
- Artificial Intelligence Litoral (IA@Litoral 2023) - October 2023, Santa Fe, Argentina.
- Analytics, Data Science and Decision Making SS (IADS'22) - July 2022. University of Essex, UK
- Artificial Intelligence and Games - August 2022. Greece.
- Easter European Machine Learning Summer School - July 2022. Vilnius.
- The Cornell, Maryland, Max Planck Pre-doctoral Research School - 2019, Max Planck institute, Germany

EXPERIENCE

• Sr. Software Engiener - iRobot Corporation

April 2021 - present

Full time employee - Mapping, planning and machine learning team.

- Core member of the SLAM team
- Owner of semantic segmentation for floortype detection model

• Software Engiener - iRobot Corporation *April*

2019 - September 2021

Remote contractor - Rosario, Argentina

- Provide support for Roomba's simulator (Python)
- Worked extensively in Roomba SLAM system, especially in mapping (C++)
- CNN for floor-type detection (Pytorch)
- Vision transformers for object detection (Pytorch)

• Robotics Intern - iRobot Corporation *April*

2018 - April 2019

Research Intern - Pasadena, CA, US

SKILLS AND INTERESTS

- Deep Learning, particularly CNN, visual transformers and generative AI.
- Very interested in applications to robotics, gaming and astronomy.
- Interpretable ML.
- Data science, data mining.

LANGUAGES

• English - Proficient

- Cambridge Certificate of Proficiency in English
Issued Dec. 2020, Grade A
- IELTS, Band 8
Issued May. 2021, Grade A

• Spanish - Mother tongue