

# Jeremias Rodriguez

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## EXPERIENCE

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- **iRobot Corporation** *September 2021 - Present*  
Software Engineer - London, UK
  - Work on a novel SLAM system for Roomba. My responsibilities included software development of both embedded robot code and debugging desktop tools. (C++, Python)
- **iRobot Corporation** *April 2019 - August 2021*  
Remote contractor - Rosario, Argentina
  - Worked on long term mapping for vSLAM-based robots. (C++)
  - Experience analysing information from automated telemetry reports sent by millions of customer's robots. (Mode Analytics, Python, R, SQL)
- **iRobot Corporation** *April 2018 - April 2019*  
Robotics Intern - Pasadena, CA, US
  - Developed a long-term WiFi mapping system, which is currently being used by Roomba and Braava robots. (C++)
  - Worked on localizing WiFi and Bluetooth devices in the house. (C++ / R)
  - Researched the use of RSSI data to aid SLAM in challenging situations. (C++ / R)
- **Plantium S.A.** *December 2017 - March 2018*  
Software Engineer - Rosario, Argentina

## LANGUAGES

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- **English** - Proficient
  - Cambridge Certificate of Proficiency in English  
*Issued Dec. 2020, Grade A*
  - IELTS, Band 8  
*Issued May. 2021, Grade A*
- **Spanish** - Mother tongue

## PUBLICATIONS

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

## EDUCATION

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**Master's Degree in Computer Science** *May 2021*  
Universidad Nacional de Rosario, Argentina  
Grade average: 9.52 out of 10

**Bachelor's Degree** *2017*  
Universidad Nacional de Rosario, Argentina  
Grade average: 9.50 out of 10

## AWARDS

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- Second highest GPA amongst 2021 FCEIA graduates
- Eight highest GPA amongst all 2021 UNR graduates

## SKILLS

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- C/C++, Python, R, Haskell, SQL, Mode Analytics
- Data science, Machine Learning, SKLearn. Deep Learning: Tensorflow, Pytorch
- Solid experience in Software Engineering: Object Oriented Programming, Design Patterns, Data Structures, Databases
- Robotics, SLAM, Combinatorial Optimization, Graph Theory.
- Linux, Agile (Scrum), Jira, Git

## PROJECTS

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- **RRL detection** [[github.com/jere1882/RRL](https://github.com/jere1882/RRL)]  
Star classification.(Python ; scikit-learn)
- **NachOS** [[github.com/jere1882/NachOS](https://github.com/jere1882/NachOS)]  
Educational operating system. (C++)

## SUMMER SCHOOLS

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- Eastern European Machine Learning Summer School (EEML'22) - July 2022, Vilnius, Lithuania
- Analytics, Data Science and Decision Making SS (IADS'22) - July 2022. University of Essex, UK
- Artificial Intelligence and Games - August 2022, Chania, Greece
- The Cornell, Maryland, Max Planck Pre-doctoral Research School - 2019, Max Planck institute, Germany