



# Andres Becker


## PERSONAL DETAILS

**Birth date:** 20.02.1990

**Nationality:** Mexican

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 [andresbecker.github.io](https://github.com/andresbecker)

## LANGUAGES

- **Spanish:** Native
- **English:** B2. IELTS, 2017
- **German:** A2.1

## WORKING EXPERIENCE

### Data Innovation Lab | TUM - MaibornWolff GmbH

04.2020 - 07.2020, 20 hours week

Project: Multi-Agent Reinforcement Learning for Logistics.  
Development of a GYM environment to implement and test Reinforcement Learning (RL) algorithms to manage the logistics and resources of a chaotic warehouse.

### Internship | AIRBUS Defence and Space

08.2019 - 02.2020, Full time

Trajectory optimization for multiple autonomous Unmanned Aerial Vehicles, statistical analysis and Cloud computing infrastructure deployment.

### Cyber Security Analyst | Bank of Mexico (Banxico)

12.2016 - 08.2018

Administration, hardening, monitoring and pentest of Linux infrastructure and DBMS at the electronic payments systems department.

### IT Manager | Clabeck

06.2009 - 12.2016

Administration of IT resources (network, workstations, IP telephones, Windows and Linux servers, databases, etc.).

### Internship | Direction of Computing and Communications (IPN)

05.2014 - 12.2014, 20 hours week

Data mining and statistical analysis of Cyber Security incidents.

## EDUCATION

### MSc. Mathematics | Technische Universität München

10.2018 - Current

### BSc. Physics and Mathematics | Instituto Politécnico Nacional México

08.2008 - 06.2014

Dissertation: *The NSGA-II algorithm and its hybridization with a gradient based method.* The objective was to improve the performance of the genetic algorithm NSGA-II by merging it with a mathematical exact method.

## SKILLS

- **Programming:** C/C++, Python, MATLAB, AWK, Bash, VBA.
- **Machine Learning:** TensorFlow, PyTorch, GYM.
- **Statistics:** R, IBM SPSS.
- **SQL Database Managers:** PostgreSQL, MySQL, SQL Server.
- **Miscellaneous:** ~~LaTeX~~ **LaTeX**, Linux, Networking, Windows Server, MS Office.

## COURSES & WORKSHOPS

- BigData in Payments, 60 hours. | **ITESM** 2017
- Red Hat System Administration I, 45 hours. | **RedHat Academy** 2017
- VBA in Excel Workshop, 25 hours. | **Instituto Politécnico Nacional** 2015
- SQL Server Workshop, 25 hours. | **Instituto Politécnico Nacional** 2015
- Interconnecting LAN & WAN Networks, 200 hours | **Centro de Investigación en Computación, IPN** 2011