



# Andres Becker

## WORK EXPERIENCE

## CONTACT

📍 München / Deutschland

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andres-becker

🐙 andresbecker.github.io

## SKILLS

### Programming:

C/C++, Python, MATLAB,  
AWK, Bash, VBA.

### Machine Learning:

TensorFlow / Keras,  
PyTorch, GYM.

**Statistics:** R, IBM SPSS.

### Database Managers:

PostgreSQL, MySQL,  
SQL Server.

### Miscellaneous:

Linux, Networking,  $\text{\LaTeX}$   
Windows Server,  
MS Office.

## LANGUAGES

**Spanish:** Native

**English:** B2. IELTS, 2017

**German:** A2.1

- **ICB - Helmholtz Zentrum München** / Master Thesis Student 11.2020 - 04.2021  
Full time  
Project: Predicting Transcription Rate from Multiplexed Protein  
Maps using Deep Learning.  
Tools: Python, TensorFlow, GPU, Scikit-learn, Git, Slurm, Linux/Bash.
- **MaibornWolff GmbH** / Project Student 04.2020 - 07.2020  
20 hours week  
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement  
Learning for Logistics.  
Tools: Python, TensorFlow, PyTorch, Gym, Git, Bash scripting.
- **AIRBUS Defence and Space** / Intern 08.2019 - 02.2020  
Full time  
Trajectory optimization for multiple autonomous Unmanned  
Aerial Vehicles, statistical analysis and Cloud computing  
infrastructure implementation.  
Tools: MATLAB, RedHat OpenStack, Docker, Python, Pandas,  
Seaborn, Git, LaTeX, Jira & Confluence, Bash scripting.
- **Bank of Mexico (Banxico)** / Cyber Security Analyst 12.2016 - 08.2018  
Full time  
Administration, hardening, monitoring and pentest of Linux  
infrastructure and DBMS at the electronic payments systems  
department.  
Tools: RHEL 6 & 7, PostgreSQL, Nessus, OSSEC, Splunk, Python,  
Bash scripting, Firewall.
- **Clabeck** / IT Analyst 06.2009 - 12.2016  
Full time  
Administration of IT resources: network, VoIP, databases, Windows  
and Linux servers, workstations, etc.  
Tools: Windows Server 2003 & 2008, Ubuntu Server, Cisco iOS,  
VPN/IPsec, SQUID, MySQL, SQL Server 2008, Python.
- **DCyC - IPN** / Intern 05.2014 - 12.2014  
20 hours week  
Data mining and statistical analysis of Cyber Security incidents.  
Tools: IBM SPSS, CentOS 5, Python, AWK, Bash scripting, LaTeX.

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EDUCATION

- **Technische Universität München** / Germany 10.2018 - 04.2021  
*MSc. Mathematics*  
Dissertation: Predicting Transcription Rate from Multiplexed Protein Maps using Deep Learning.
- **Instituto Politécnico Nacional** / Mexico 08.2008 - 06.2014  
*BSc. Physics and Mathematics*  
Dissertation: The NSGA-II algorithm and its hybridization with a gradient based method.

COURSES & WORKSHOPS

- **Intro to TensorFlow for Deep Learning** / Udacity 2021  
25 hours.
- **BigData in Payments** / ITESM 2017  
60 hours.
- **Red Hat System Administration I** / RedHat Academy 2017  
45 hours.
- **VBA in Excel Workshop** / Instituto Politécnico Nacional 2015  
25 hours.
- **SQL Server Workshop** / Instituto Politécnico Nacional 2015  
25 hours.
- **Connecting LAN & WAN Networks** / CIC - Instituto Politécnico Nacional 2011  
200 hours.