



# 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, Pandas  
Scikit-learn, Seaborn.

### 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

- **PAYBACK** / Big Data System Engineer 08.2021 - current  
Expansion, operation and optimization of the IT infrastructure for BigData environments.  
Tools: Hadoop, Hive, Kafka, Ansible, Puppet, Grafana, Docker, GIT, Python, Bash, RHEL, SCRUM. Germany
- **ICB - Helmholtz Zentrum München** / Master Thesis Student 11.2020 - 04.2021  
Project: Predicting Transcription Rate from Multiplexed Protein Maps using Deep Learning.  
Tools: Python, TensorFlow/Keras, TFDS, Git, Pandas, Seaborn, Scikit-learn, Slurm, Linux/Bash, CUDA/GPU. Germany
- **MaibornWolff GmbH** / Project Student 04.2020 - 07.2020  
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement Learning for Logistics.  
Tools: Python, PyTorch, Gym, Git, Bash scripting. Germany
- **AIRBUS Defence and Space** / Intern 08.2019 - 02.2020  
Trajectory optimization for multiple autonomous Unmanned Aerial Vehicles, statistical analysis and Cloud computing.  
Tools: MATLAB, fmincon, RedHat OpenStack, Docker, Git, Python, Pandas, Seaborn, R, LaTeX, Jira & Confluence, Bash scripting. Germany
- **Bank of Mexico (Banxico)** / Cyber Security Analyst 12.2016 - 08.2018  
Administration, hardening, monitoring and pentest of Linux infrastructure and DBMS at the electronic payments systems department.  
Tools: RHEL 6 & 7, LDAP/PAM, RSyslog/Audit, PostgreSQL, Nessus, WAZUH/OSSEC, Splunk, Checkmarx, Python, Bash script, Firewall. Mexico
- **DCyC - IPN** / Intern 05.2014 - 12.2014  
Data mining and statistical analysis of Cyber Security incidents.  
Tools: IBM SPSS, CentOS 5, Python, AWK, Bash scripting, LaTeX. Mexico
- **Clabeck** / Systems Administrator 06.2009 - 12.2016  
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. Mexico

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EDUCATION

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

COURSES & WORKSHOPS

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