



# Andres Becker

## WORK EXPERIENCE

## CONTACT

📍 München / Deutschland

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in [linkedin.com/in/andres-becker](https://www.linkedin.com/in/andres-becker)

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

## SKILLS

### Programming:

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

### Machine Learning:

TensorFlow/Keras, NumPy, 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


- **ICB - Helmholtz Zentrum München** / Master Thesis Student 10.2020 - 05.2021  
Germany / Full time  
Project: Predicting Transcription Rate from Multiplexed Protein Maps using Deep Learning.  
*Tools: Python, TensorFlow/Keras, TFDS, Git, Pandas, NumPy, Seaborn, Scikit-learn, Jupyter, Slurm, Linux/Bash, CUDA/GPU.*
- **MaibornWolff GmbH** / Project Student 04.2020 - 07.2020  
Germany / 20 hours week  
TUM - Data Innovation Lab. Project: Multi-Agent Reinforcement Learning for Logistics.  
*Tools: Python, PyTorch, Pandas, NumPy, Gym, Git, Bash scripting.*
- **AIRBUS Defence and Space** / Intern 08.2019 - 02.2020  
Germany / Full time  
Trajectory optimization for multiple autonomous Unmanned Aerial Vehicles, statistical analysis and Cloud computing infrastructure deployment.  
*Tools: MATLAB, fmincon, RedHat OpenStack, Docker, Git, Python, Pandas, Seaborn, R, LaTeX, Jira & Confluence, Bash scripting.*
- **Banco de México** / Cyber Security Analyst 12.2016 - 08.2018  
Mexico / Full time  
Administration, hardening, monitoring and pentest of Linux infrastructure and DBMS at the Payments Systems Technology Division.  
*Tools: RHEL 6 & 7, LDAP/PAM, RSyslog/Audit, PostgreSQL, Nessus, WAZUH/OSSEC, Splunk, Checkmarx, Python, Bash script, Firewall.*
- **DCyC - Instituto Politécnico Nacional** / Intern 05.2014 - 12.2014  
Mexico / 20 hours week  
Data mining and statistical analysis of Cyber Security incidents.  
*Tools: IBM SPSS, CentOS 5, Python, AWK, Bash scripting, LaTeX.*
- **Clabeck** / System Administrator 06.2009 - 12.2016  
Mexico / 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.*


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## EDUCATION

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○ **Technische Universität München** / Germany 10.2018 - 05.2021  
*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

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○ **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 - IPN 2011  
200 hours.