



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, PyTorch, GYM, Pandas, Scikit-learn, Seaborn.

Statistics:

R, IBM SPSS.

Database Managers:

PostgreSQL, MySQL, SQL Server.

Miscellaneous:

Linux, Networking, \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
Germany / Full time
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.
- **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, 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

- 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 - IPN 2011
200 hours.