







# Adrián Sager La Ganga

 Willing to relocate  
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## EDUCATION

**Master of Science, Computational Science & Engineering**, EPFL, Final GPA: 5.57/6.00 **Sep. 2020 — Feb. 2023**

- Advanced algorithms (6.00/6.00)
- Machine learning (5.75/6.00)
- Advanced multiprocessor architecture
- Numerical analysis and computational mathematics
- Computational finance
- Molecular quantum mechanics (6.00/6.00)

**Bachelor of Science, Computer Engineering**, Polytechnic University of Turin, Final grade: 110/110 **Oct. 2017 — Jul. 2020**

## EXPERIENCE

**IBM Research Intern** **Aug. 2023 — Jan. 2024**  
IBM Research Zürich  
Zürich, Switzerland

**AI Fullstack Co-Founder** **Jun. 2023 — Present**  
DevGenius.ai  
Zürich, Switzerland

- Ideated and developed an end-to-end prototype

**IBM Master Thesis** **Sep. 2022 — Jan. 2023**  
IBM Research Zürich  
Zürich, Switzerland

- Generated sustainable chemical reactions with language models (LMs) for potential use in the team's *RXN for Chemistry* product


**System Engineer Intern (Full-time)** **Mar. 2022 — Sep. 2022**  
Beyond Gravity  
Zürich, Switzerland

- Improved C++ rover simulation software for ESA's ExoMars mission:
  - Devised novel numerical method for wheel-soil interaction, reducing the error term from  $O(\Delta t)$  to  $O(\Delta t^n)$  for any  $n$
  - Achieved  $> \times 3.0$  speedup with SIMD matrix operations, better code structure, and concurrency
  - Enabled experimentation on HiRISE Mars terrain data by developing a Gaussian process regression (GPR) denoising algorithm

**Data Scientist Intern (Full-time)** **Mar. 2020 — May. 2020**  
Dynatrace  
Hagenberg campus (Linz), Austria

- Presented Python-to-Java pipeline to translate the 7-person team's research into production


## AWARDS & PUBLICATIONS


**2023**  P. Oettershagen, **A. Sager La Ganga**, M. Gouy du Roslan, et al. DynRPAT: A Novel Parametric Analytical Tool to Efficiently Simulate High-Speed or Low-Gravity Locomotion Conditions for Planetary Exploration Rovers. *ESA ASTRA symposium*, 2023.


**2022**  **Young Talents Fellowship** from the Swiss *National Centres of Competence in Research* foundation


**2019**  *European Innovation Academy*, 3-week startup competition (~200 participants):

- **Awards**: **U.S. Provisional Patent** from Nixon Peabody | **Top Team** | *HAG Venture Accelerator award*
- Selected as CTO in a team of 5 ideating and presenting a prototype for safer space travel, including an investor pitch

 Eta Kappa Nu member (electrical engineering and computer science honor society)

**2018**  Awarded *Like@Home* hackathon *Reply* prize: Innovate in 24h in a team of 5 using Google's Voice Kit

**2017**  **Scholarship ToPolito** ( **top 17** best performing international engineering students)

 **Young Talents Project** member ( **top 5%** best performing engineering students)

## PROJECTS & RESEARCH

**Computer Vision to stabilize video of a fly's neural activity**, Ramdya Lab (EPFL), 6.00/6.00 **Sep. 2021 — Jan. 2022**

- Created  $\times 770\%$  faster and  $\times 186\%$  lower MSE transform than baseline  
github.com/Sager611/stabilize2p

**Deep Learning to predict star properties**, Laboratory of Astrophysics (EPFL), 6.00/6.00 **Mar. 2021 — Jul. 2021**

- $+20\%$  performance over baseline by employing a Locally Connected Network with uncertainty estimation

**CNN inference on FPGA**, Computer Architecture course (Polytechnic University of Turin), 30/30 cum laude **Mar. 2019 — Jul. 2019**

- Optional extra project in a team of 3 with a topic of our choosing
- Programmed 6 CNN layers for inference in an FPGA: 2D Convolution, Max/Mean Pooling, and Sigmoid/ReLU/Tanh activations

## LANGUAGES

- English (fluent)
- Italian (fluent)
- Spanish (native)
- German (B1.1)
- French (B1.1)

## SKILLS

**Programming**

- Python for AI (PyG/Keras/transformers/sklearn/xgboost/OpenCV)
- Backend (AWS/Docker/SQL)
- C/C++
- Frontend (Node.js/HTML)