

# Xavier Oliva Jürgens

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## Education

### M.Sc., Data Science

09/2020 – today

École Polytechnique Fédérale de Lausanne (EPFL)

Lausanne, Switzerland

- Relevant Coursework: Applied Data Analysis, Machine Learning, Information Security and Privacy, Statistics for Data Science, Optimization for Machine Learning, Privacy-Enhancing Technologies
- Projects: Cough classification (dry/wet), decentralized learning, secure multi-party computation

### Honors Degree, Technology Management

01/2020 – today

Center for Digital Technology and Management (CDTM) – GPA: 1,1

Munich, Germany

- Relevant Coursework: Managing Product Development, Entrepreneurship Laboratory, Business Modelling, Self Leadership
- Published Trend Report about “Public Administration in the Digital Era” in cooperation with Tech4Germany

### B.Sc., Electrical Engineering and Information Technology

10/2016 – 10/2019

Technical University of Munich (TUM) – GPA: 1,2

Munich, Germany

- Bachelor's Thesis at Chair of Media Technology (TUM):
  - “Encoder-Decoder Sequence-to-Sequence Model for Head Movement Prediction in 360° Videos” (grade: 1,0)
  - Examined model based on stacked LSTMs, applied to supervised multi-step regression problem
  - Implemented with Python Deep Learning library Keras
- Volunteered at TUM MIX, mentoring program for international exchange students
- Engaged in “Buddies for Refugees” program

### Term Abroad, Polytechnique Montréal, Computer Science

08/2018 – 12/2018

Polytechnique Montréal (EPM) – GPA: 1,0

Montréal, Canada

- Relevant Coursework: Information Networks, IT Security, Databases
- Earned Rohde-Stiftung stipend for exchange semester

### German High School Diploma “Abitur”

09/2001 – 05/2016

German School of Barcelona – GPA: 1,0

Barcelona, Spain

- Participated in **BCN-MUN** (Model United Nations) as delegate
  - Received **DPG High School prize** for outstanding students in physics
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## Work Experience

### Harold Waste

01/2019 – 04/2019

Full Stack Junior Developer, Intern

Paris, France

- Young startup, building digital assistant helping players in the waste management market
- Developed web equivalent of the mobile app (Node, React Js, Firebase)
- Ideated and implemented Python scripts to automatically upload Google Sheets data to Cloud Firestore database

### Celonis GmbH

04/2020 – 07/2020

Product Development Consultant

Munich, Germany

- Goal: Development of a new operational finance app
- Implemented an application in the Celonis ecosystem, taking Accounts Receivable as a main use-case
- Developed a viable business model and an investor pitch deck as part of Managing Product Development course

## Chair of Data Processing (TUM)

04/2020 – 08/2020

Safe Reinforcement Learning Research, Student Assistant

Munich, Germany

- Goal: Development of open-source environment for measuring learning agents that respect safety constraints while training
- Developed and tested pybullet environments to perform benchmarking of reinforcement learning algorithms

## Professorship of Signal Processing (TUM)

10/2019 – 09/2020

Stochastic Signals and Circuit Theory I & II, Tutor

Munich, Germany

- Bachelor courses in Electrical Engineering and Information Technology at TUM
- Prepared classes, assisted and encouraged students in exam preparation

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## Volunteer Experience

### 180 Degrees Consulting Munich

11/2019 – 08/2020

Social Student Consultant & Head of IT Department

Munich, Germany

- Head of IT Department of the non-profit student organization
- Ideated and prototyped digital registration process for local social startup

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## Skills, Interests, and Awards

**Languages:** **German** (native), **Spanish** (native), **English** (business fluent), **French** (business fluent), **Catalan** (native), **Portuguese** (basic communication skills)

**Technical:** Working knowledge: **Python** (Pandas, NumPy, Keras, PyTorch, Tensorflow), **JavaScript** (React, React Native), HTML, CSS, Node.js, Basic knowledge: **C**, **C++**, **MATLAB**

**Interests:** Technology (data science, cybersecurity, privacy-enhancing technologies), sports (hiking, soccer, running)

**Awards:** Studienstiftung scholar, Elite Network of Bavaria scholar, Rohde-Stiftung stipend, German Physical Society high school prize

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