

# Angéline Nathalie Pouget

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Switzerland

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## Education

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| <b>ETH Zürich</b><br><i>Master of Science in Data Science</i> <ul style="list-style-type: none"><li>• Strong focus on reliable &amp; trustworthy AI research (current weighted average: 5.82 / 6.00)</li><li>• Full scholarship through the Excellence Scholarship &amp; Opportunity Programme of ETH Zürich</li></ul> | Sep 2022 – current<br>Zürich, Switzerland  |
| <b>ETH Zürich</b><br><i>Bachelor of Science in Electrical Engineering and Information Technology</i> <ul style="list-style-type: none"><li>• Graduated with distinction (weighted average: 5.79 / 6.00)</li><li>• Full scholarship by the Werner Siemens-Foundation and the Swiss Study Foundation</li></ul>           | Sep 2018 – Aug 2021<br>Zürich, Switzerland |

## Research & Teaching Experience

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| <b>Research Assistant</b><br><i>Secure, Reliable, and Intelligent Systems Lab, ETH Zürich</i> <ul style="list-style-type: none"><li>• Supervisor: Prof. Martin Vechev</li><li>• Research on provable fairness in machine learning models through data pre-processing (FRL).</li><li>• Analyzing the tradeoff between fairness, tightness of fairness certificates and the utility of representations in downstream tasks</li></ul>  | Feb 2023 – current<br>Zürich, Switzerland      |
| <b>Student Researcher</b><br><i>Google DeepMind</i> <ul style="list-style-type: none"><li>• Collaboration with (among others): Ibrahim Alabdulmohsin, Lucas Beyer, Xiaohua Zhai</li><li>• Measuring the impact of culturally diverse, global and multilingual training data on multimodal deep learning system performance with a focus on model biases and fairness.</li></ul>   | Sep 2023 – Mar 2024<br>Zürich, Switzerland     |
| <b>Teaching Assistant</b><br><i>ETH Zürich</i> <ul style="list-style-type: none"><li>• Prepared and taught weekly exercise sessions, held exam preparation courses, served as liaison between professors and students, collaborated with professors and senior researchers across 4 institutes.</li><li>• Institute for Machine Learning, "Introduction to Machine Learning" (Spring 2023), 1000+ students</li><li>• Chair for Mathematical Information Science, "Signals and Systems Theory" (Fall 2022, Fall 2020)</li><li>• Photonics Laboratory, "Electromagnetic Waves and Fields" (Spring 2021)</li><li>• Integrated Systems Laboratory, "Digital Circuits" (Fall 2019)</li></ul> | Sep 2019 – Jun 2023<br>Zürich, Switzerland     |
| <b>Bachelor Project Student</b><br><i>IBM Research</i> <ul style="list-style-type: none"><li>• Supervisors: Abbas Rahimi, Michael Hersche</li><li>• Developed a weightless RNN for sparse factorization problems outperforming state of the art models especially for problem sizes larger than <math>10^9</math> (accuracy consistently at 1.0).</li><li>• Reduced the parameter count of the MobileNet-V2 classifier by 99.79%</li></ul>  | Feb 2021 – Jul 2021<br>Rüschlikon, Switzerland |
| <b>Student Researcher</b><br><i>Computer Vision Lab, ETH Zürich</i> <ul style="list-style-type: none"><li>• Supervisor: Prof. Radu Timofte</li><li>• Collected and labelled a camera scene detection dataset of 11k images in 30 categories.</li><li>• Developed an NPU-friendly CNN model with top-1 and top-3 accuracy of more than 94% and 99%.</li></ul>  | Sep 2020 – Jan 2021<br>Zürich, Switzerland     |

### *Additional Work Experience*

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#### **Forward Deployed Engineer Intern**

Jun 2023 – Sep 2023

*Palantir*

*London, United Kingdom*

- Developed and managed four different use cases in close collaboration with internal and client stakeholders during scoping, development and go-live.
- Worked closely with product development teams to ensure that client feedback is leveraged to continually improve Palantir's product offerings.
- Onboarded two new client team members.

#### **Fellow Intern**

Feb 2022 – Apr 2022

*McKinsey & Company*

*Zürich, Switzerland*

- Solved challenging business problems across two different industries and companies in close cooperation with clients and colleagues.

#### **Structured Products Analyst Intern**

Jul 2021 – Jan 2022

*Goldman Sachs*

*London, United Kingdom*

- Developed and priced novel cross asset structured products and derivatives solutions.

### *Volunteering Experience*

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#### **Managing Partner**

Jun 2022 – Jun 2023

*Founderful Campus*

*Zürich, Switzerland*

- Led a team of seven people in a student-led VC fund that supports founders of technical startups from ETH, EPFL and HSG with initial capital and mentorship.
- Invested CHF 200'000 in eight different startups over the course of two semesters.

### *Research Publications & Preprints*

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Michael Hersche, Aleksandar Terzic, Geethan Karunaratne, Jovin Langenegger, **Angéline Pouget**, Giovanni Cherubini, Luca Benini, Abu Sebastian, Abbas Rahimi. "Factorizers for Distributed Sparse Block Codes". Preprint. March 2023.

**Angéline Pouget**, Sidharth Ramesh, Maximilian Giang, Ramithan Chandrapalan, Toni Tanner, Moritz Prussing, Radu Timofte, Andrey Ignatov. "Fast and accurate camera scene detection on smartphones". In *Mobile AI 2021 Workshop at Conference on Computer Vision and Pattern Recognition (CVPR)*. May 2021.

Andrey Ignatov, Kim Byeoung-su, Radu Timofte, **Angéline Pouget**, et al. "Fast camera image denoising on mobile GPUs with deep learning, mobile AI 2021 challenge: Report". In *Mobile AI 2021 Workshop at Conference on Computer Vision and Pattern Recognition (CVPR)*. May 2021.

### *Awards & Honors*

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#### **Excellence Scholarship & Opportunity Award**

*ETH Zürich*

2022

#### **Werner Siemens Fellowship**

*Werner Siemens-Foundation and Swiss Study Foundation*

2020

#### **Best of Year and Best Matura Paper**

*Kantonsschule Zürcher Unterland*

2018

### *Skills*

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**Coding languages:** Python, SQL, Java, C++

**Languages:** German (native), English (fluent), French (intermediate), Italian (beginner)

**Non-technical skills:** communication, project management, analytical thinking, team leadership