

# Marc-Antoine Willy

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## EDUCATION

**University of California, Berkeley** 2024  
*Exchange Semester, Statistics • 4.0/4.0*

- **Relevant Coursework:** Statistics & Data Science, Machine Learning, Deep Learning for Visual Data, Economic Models
- Received a Full Tuition Scholarship via UCEAP and Additional Financial Funding from Technische Universität Berlin

**Technische Universität Berlin** Exp. 2026  
*B. Sc. Industrial Engineering and Management • Expected 1.0/1.0*

- **Relevant Coursework:** Engineering Mathematics, Statistics, Machine Learning, Business Administration, Economics
- Ranked **1st/462** (0.2%)

## EXPERIENCE

**QuantCo** Munich, Germany  
*Incoming Data Science Intern* Jul. 2025 – Oct. 2025

**Berlin Institute for the Foundations of Learning and Data** Berlin, Germany  
*Undergraduate Research Assistant* Apr. 2025 – Now

- Researching Counterfactual Analysis of Sparse Autoencoder (SAE) Features to Understand Visual Foundation Models
- Working within the Machine Learning Group of Technische Universität Berlin, under Prof. Dr. Müller (h-Index: 164)

**QuantCo** Berlin, Germany  
*Working Student & Intern* Aug. 2023 – Now

- Managed Software and Hardware for 200+ Employees; Supported Event Organization and On-Site Operation Efforts

**Cyber Innovation Hub of the German Federal Armed Forces** Berlin, Germany  
*Defense Intern* Mar. 2022 – May 2022

- Researched Various Military Dual-Use Solutions and Potential Novel Applications within the German Armed Forces
- Liaised with Different Military Branches, Most Notably the Kommando Spezialkräfte (KSK), Germany's Special Forces

**Fraunhofer Institute for Industrial Engineering** Berlin, Germany  
*Research Intern* Nov. 2021 – Feb. 2022

- Built a Psychological Test for a Survey in a Government Agency with 5,000+ Employees to Assess Latent Racial Biases
- Developed Multiple Web Scrapers to Automate Previously Manual Data Collection Processes using Python (Selenium)

**KPMG Germany** Berlin, Germany  
*Credit Risk Intern* Jul. 2021 – Sep. 2021

- Developed a Probabilistic Model Based on Geospatial Data to Quantify Residential Fire Risk Across Coastal California
- Assisted Development of Credit-Default Risk Models for Petroleum Producers, amid Escalating Carbon-Tax Scenarios

## ACADEMIC SCHOLARSHIPS

- German Academic Scholarship Foundation (*Studienstiftung des Deutschen Volkes*) 2025
- Germany's National Scholarship Program (*Deutschlandstipendium*) 2024
- Tuition Scholarship by the University of California, Berkeley 2024
- International Scholarship by the Technical University of Berlin 2023

## EXTRACURRICULAR VOLUNTEERING

**Médecins Sans Frontières & Humanitarian OpenStreetMap Team** Berlin, Germany  
*Satellite Mapping Volunteer* Jul. 2021 – Now

- Digitized and Validated 1,000 km<sup>2</sup> of High-Resolution Satellite Imagery During 400+ Hours of Mapping, Capturing 10,000+ Buildings and 600 km of Roads to Improve Map Coverage for Emergency-Response and Humanitarian Efforts.
- Supported Both Virtual and In-Person Events for Médecins Sans Frontières by Leading Hands-On OpenStreetMap Sessions and Training Participants in Digital Mapping Techniques.

## SKILLS & PERSONAL INTERESTS

**Technology:** Python (*sklearn, statsmodels, xgboost, numpy, pandas, seaborn*), Java, C/C++, Git, LaTeX, Tableau, Visual Basic  
**Personal Interests:** Machine Learning, Playing the Piano, Personal Finance, Reading, Outdoor Running, Lifelong Learning  
**Languages:** German (C2), English (C2), Chinese Mandarin (A2), French (A2)