

# SABRINA MILLER

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## PROFESSIONAL SUMMARY

Data Analyst with a strong foundation in clinical and biomedical domains. Experienced in programming (MATLAB, Python, SQL), clinical data workflows, medical technologies, and interdisciplinary research. International academic background, fast learner, and passionate about data-driven healthcare innovation.

## TECHNICAL SKILLS

- **Programming:** MATLAB, Python, SQL, R, C, Java, JavaScript, HTML/CSS
- **Data Tools:** Statistical Analysis, Data Merging, Data Cleaning, Preprocessing, Visualization, UI Development
- **Clinical Tools:** Experiment Design, Motion Capture (Qualisys), Visual3D, Force Platforms, Accelerometers, IMUs, Exosuits, MRI Data Handling
- **Machine Learning:** Supervised ML, Classification, Regression
- **Software:** Microsoft Office, GitHub, Online Database Systems

## PROFESSIONAL EXPERIENCE

### Harvard University – School of Engineering and Applied Sciences, Boston, MA

Master's Thesis Researcher in Biodesign Lab

*Jun 2025 – Dec 2025*

- Conducting master's thesis research in collaboration with the Harvard Biodesign Lab.
- Responsible for organizing, cleaning, and merging large-scale datasets from multiple human studies.
- Supporting data infrastructure development to enable cross-study analysis in biomedical engineering contexts.
- Working primarily with MATLAB for data handling and preprocessing.
- Focus on improving data quality and consistency to support algorithm development and research insights.

### AI Developer – Wallinger Ricker Schlotter Tostmann, Munich, Germany

*Apr 2025 – May 2025*

- Developed an AI-based internal tool for processing and retrieving technical patent data using embeddings and LLMs.
- Enabled semantic document search and improved internal knowledge accessibility across departments.

### Programming Tutor (MATLAB) – Justus-Liebig-University, Giessen, Germany

*Jun 2024 – Jul 2024 (Temporary)*

- Delivered intensive MATLAB programming workshops for master's students, including GUI design and data processing.
- Designed hands-on exercises and provided tailored support to accelerate student learning.

### Data Analysis Tutor (Voluntary) – Justus-Liebig-University, Giessen, Germany

*Apr 2024 – Aug 2024*

- Assisted students with course content in "Specific Data Analysis", breaking down complex topics into understandable elements.
- Provided one-on-one guidance to reinforce theoretical understanding with practical examples.

### Graduate Student Research Assistant – Justus-Liebig-University, Giessen, Germany

*Apr 2024 – Jun 2024 (Temporary)*

- Supported MRI-based research in the Cognitive Neuroscience Department, assisting with experiment setup, test subject coordination, and data acquisition.
- Contributed to structured neuroimaging workflows and upheld high standards in data quality and research execution.

### Undergraduate Research Assistant – University of Regensburg, Regensburg, Germany

*Apr 2022 – Apr 2023*

- Conducted literature reviews, experiment planning, lab work, and research documentation
- Assisted in editing and preparing publications for journal submission

## EDUCATION

**Università di Torino**, Turin, Italy – Exchange Semester (Erasmus+)

*Oct 2024 – Mar 2025*

- Completed coursework in the “Biotechnology for Neuroscience” master’s program, focusing on data science, biomechanics, and neuroimaging.

**Justus-Liebig-University**, Giessen, Germany

*Oct 2023 – Dec 2025 (Expected) – M.Sc. Human Movement Analytics*

- Focus: Data Analysis, Statistics, Medical Engineering, Experimental Design, Statistical Modeling

**University of Regensburg**, Regensburg, Germany

*Jul 2023 – B.A. Applied Movement Science*

- Minor: Information Science – Emphasis on Data Systems and Modeling
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## CERTIFICATIONS & TRAINING

- Supervised Machine Learning (Stanford University via DeepLearning.AI)
  - Advanced Learning Algorithms (Stanford University via DeepLearning.AI)
  - Biomedical Research Investigators (CITI Program)
  - General & Laboratory Safety, Laser & Soldering Safety (Harvard EHS)
  - Introduction to Clinical Data (Stanford University, School of Medicine)
  - SQL for Data Science (University of California, Davis)
  - Introduction to Healthcare (Stanford University, School of Medicine)
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## PROFESSIONAL SKILLS

- **Analytical Thinking** – Skilled in breaking down complex problems and identifying patterns
  - **Attention to Detail** – Accurate, precise, and thorough in handling data and documentation
  - **Project Coordination** – Experienced in organizing tasks and managing timelines
  - **Team Collaboration** – Strong communicator and reliable team player in interdisciplinary settings
  - **Fast Learner** – Able to quickly adapt to new tools, topics, and environments
  - **Scientific Communication** – Proficient in academic writing and presenting research
  - **Languages** – Fluent in **German** and **English**, intermediate French, basic Italian
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## OTHER EXPERIENCE

**Purchasing Clerk** – Fonds Finanz Maklerservice GmbH, Munich, Germany

*Jul 2023 – Aug 2023 (Temporary Position)*

- Digitized and structured large volumes of physical purchasing data into a new internal system, improving data accessibility and organization.
- Supported the purchasing department during staff absences, handling procurement workflows and supplier coordination.

**Children's Swimming Instructor** – University of Regensburg, Regensburg, Germany

*Oct 2022 – Mar 2023*

- Led beginner-level swim classes for children aged 5–10, tailoring instruction to individual skill levels.
- Created a safe, fun, and engaging environment using a child-friendly mix of theory, practice, and games.

**Team Lead – COVID-19 Testing Station** – 21Dx GmbH, Munich, Germany

*Oct 2020 – Dec 2021*

- Managed daily operations, enforced health protocols, and oversaw staff scheduling and financial tracking.
- Supervised and trained staff members, streamlining onboarding and ensuring efficient workflow during high-demand periods.