

# Patrick Styll

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🎓 Google Scholar 💬 LinkedIn 🤖 GitHub

## Education

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<b>Federal Institute of Technology Zurich (ETH Zurich)</b> , MSc in Computer Science	Sep 2025 – Jul 2027
<ul style="list-style-type: none"><li>• <b>Major:</b> Machine Intelligence    <b>Minor:</b> Data Management</li><li>• <b>Grants and Stipends:</b> NÖ Exzellenzstipendium ↗ (30.000€)</li></ul>	
<b>Technical University of Vienna (TU Wien)</b> , BSc in Software & Information Engineering BHons in AI in Medicine	Oct 2021 – Jul 2025
<ul style="list-style-type: none"><li>• <b>GPA:</b> 1.20, with distinction; Top 5%; Dean's List, Bachelor with Honors ↗</li><li>• <b>Grants and Stipends:</b> Excellency Scholarship 2022/2023/2024, BHons Internship Scholarship, Stiftungsstipendium</li><li>• <b>Coursework:</b> Artificial Intelligence, Machine Learning (in Medicine), Applied Deep Learning, Deep Learning for Visual Computing, Algorithmics, (Biomedical) NLP and Data Mining, Reinforcement Learning, Information Retrieval, Biosignalling and Medical Imaging, (Computational) Neuroscience, Neuroscience-based AI</li><li>• <b>Selected Talks:</b> (i) Presentation at the CLEF ↗ conference in France on cross-linguistic disease and drug detection (ii) Presentation at the AlxIA ↗ conference in Italy on automated EHR generation (iii) Talk at the YSS ↗ at ISTA ↗ on predicting early neurodevelopmental outcomes from neonatal fMRI data</li></ul>	
<b>BG/BRG Gmünd</b> , Academic High School of Austria	2012 – 2020
<ul style="list-style-type: none"><li>• <b>Graduation with Honors</b>, top of class</li><li>• Diploma Thesis won first price at the Austrian Physics Society, ÖPG; newspaper article ↗</li></ul>	

## Experience

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<b>Student Researcher</b> , ETH Zurich – Basel, Switzerland	Dec 2025 - running
<ul style="list-style-type: none"><li>• Working under Prof. Cai Na in the Computational Medical Genomics Lab ↗, D-BSSE</li></ul>	
<b>Research Assistant</b> , The University of Tokyo – Tokyo, Japan	Jun 2025 - Aug 2025
<ul style="list-style-type: none"><li>• UTSIP 2025 Kashiwa Internship ↗ in Computational Biology; Laboratory of Large-Scale Bioinformatics ↗</li><li>• Developed a new kind of Hidden Markov Model to detect related regions in sequences with higher sensitivity</li></ul>	
<b>Research Assistant</b> , Spanish National Research Council (CSIC) – Madrid, Spain	Feb 2025
<ul style="list-style-type: none"><li>• Research focusing on (bio)medical automated text identification in a multilingual setting</li></ul>	
<b>Research Assistant</b> , Seoul National University – Seoul, South Korea	Jul 2024 – Mar 2025
<ul style="list-style-type: none"><li>• Research focusing on predicting autism/developmental delay through neonatal fMRI scans</li><li>• Deep Learning architecture to predict task-related brain activity from resting-state brain dynamics</li><li>• Emotion Decoding through Deep Neural Representation Learning of Naturalistic Stimuli</li></ul>	
<b>Teaching Assistant</b> , Technical University of Vienna – Vienna, Austria	Oct 2024 – Jun 2025
<ul style="list-style-type: none"><li>• 184.702 Machine Learning (VU) - graduate-level course</li><li>• 194.077 Applied Deep Learning (VU) - graduate-level course</li><li>• Held a lecture on Large Language Models for 60 students – YouTube ↗</li><li>• Held a workshop on an introduction to PyTorch for 200 students</li></ul>	
<b>IT Consultant</b> , Prime Force Group – Vienna, Austria	Jul 2022 – May 2024
<ul style="list-style-type: none"><li>• Full-Stack development, architectural software modeling, hands-on customer consultancy and project-management</li><li>• Substantial contributions to a large-scale European-funded healthcare project to improve treatment of cancer patients, lead by the medical university of Graz</li></ul>	

## Publications

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<b>MedAID-ML: A Multilingual Dataset of Biomedical Texts for Detecting AI-Generated Content</b>	Sep 2025
<b>Patrick Styll</b> , Leonardo Campillos-Llanos, Jorge Fernandez-Garcia, Isabel Segura-Bedmar	
<b>Human or Not? Light-Weight and Interpretable Detection of AI-Generated Text</b>	Sep 2025
<b>Patrick Styll*</b> , Maximilian Seeliger*, Moritz Staudinger, Allan Hanbury	
<b>Swin fMRI Transformer Predicts Early Neurodevelopmental Outcomes from Neonatal fMRI</b>	Mar 2025
<b>Patrick Styll*</b> , Dowon Kim*, Jiook Cha	
<b>Enhancing Clinical Data Capture: Developing a Natural Language Processing Pipeline for Converting Free Text Admission Notes to Structured EHR Data</b>	Nov 2024
<b>Patrick Styll</b> , Wojciech Kusa, Allan Hanbury	
<b>Cross-Linguistic Disease and Drug Detection in Cardiology Clinical Texts: Methods and Outcomes</b>	Sep 2024
<b>Patrick Styll</b> , Leonardo Campillos-Llanos, Wojciech Kusa, Allan Hanbury	
<b>DoSSIER at TREC 2023 Clinical Trials Track</b>	Nov 2023
Wojciech Kusa, <b>Patrick Styll</b> , Maximilian Seeliger, Oscar E. Mendoza, Allan Hanbury	

## Selected Projects

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<b>Integrated and Standardized Next Generation Sequencing Workflows for Personalised Therapy</b>	July 2022 - Apr 2024
A Pre-Procurement Project for <b>improving cancer patient's benefit from Next Generation Sequencing (NGS)</b> by developing an integrated and standardized NGS workflow and integrating information from <b>cancer gene testing, pharmacogenetics testing and e-medication</b> in proper presentation to medical doctors for <b>supporting therapy decision making at bedside</b> . My responsibilities in the Prime Force Group included but were not limited to the leading role in developing a system for <b>fast processing and secure storage of large amounts of genomic data</b> , as well as presenting an <b>intuitive UI for medical staff</b> and ensuring interoperability in Hospital Information Systems by leveraging HL7 standards, while closely working together with healthcare professionals from Medical University of Vienna, Graz and Innsbruck and several other institutions focusing on <b>(pediatric) cancer research</b> .	

## Volunteering

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<b>Co-Founder and Co-Organizer</b> , Google Developer Group TUW – Vienna, Austria	Sep 2024 - Jun 2025
• As co-founder/co-organizer of the now largest GDG in Austria at TU Wien, I organize bi-weekly journal clubs and speaker series about intelligent systems with the help of my fellow organizers. <a href="#">GDG Homepage</a>	
<b>Mentor</b> , Technical University of Vienna – Vienna, Austria	Oct 2024 - Jan 2025
• As a mentor, I look after a group of 20 mentees and accompany them with regular meetings through the first semester at the TU Wien. <a href="#">TUV Mentoring Homepage</a>	
<b>Local Organizing Team</b> , Technical University of Vienna – Vienna, Austria	Sep 2023
• Helped in organizing the European Summer School for Information Retrieval 2023, as part of the Data Science Research Unit under Dr. Allan Hanbury. <a href="#">ESSIR2023 Homepage</a>	
<b>Miliz Soldier</b> , Austrian Armed Forces – Tulln, Austria	Oct 2020 - running
• As a soldier of the Miliz, I assist in border surveillance and disaster relief.	