CURRICULUM VITAE

Name	**Thorge Janz**
E-mail / Website	tjanz@tuta.io, www.tjanz.cv
GitHub	https://github.com/tjanz-0
Address	Heinrich-Fuchs-Str. 100, 69126 Heidelberg
Year and place of birth	2003, Wolfsburg, Germany

Education

Heidelberg University (10.2022 - expected 12.2025) Heidelberg, Germany
BSc in Physics
Institute of Computer Engineering (ZITI);
European Institute for Neuromorphic Computing (EINC)
Thesis Title: "Gradient-Based Training of Multi-Compartmental Neuron Models on BrainScales-2"
(Access via https://www.kip.uni-heidelberg.de/optiqs/publications)

Employment and work experience

Institute of Computer Engineering (ZITI) Heidelberg, Germany
Student Research Assistant November 2025 – present
European Institute for Neuromorphic Computing (EINC)
Differentiable simulation and emulation of multi-compartmental neuron models with focus on the AdEx model,
Gradient-based optimization of hardware model parameters on BrainScales-2 via development of an in-the-loop scheme based on results from simulation.
(Linux/Windows, Python/GitHub)

Independent Projects

Website
Personal website with digital portfolio
(HTML, JS)

Python
GARCH(1,1) vs. Random Forest in SOL/USDT volatility predictions
(Access via my GitHub page)