Gabor Hollbeck

Max-Bill-Platz 11, 8050 Zürich | ghollbeck@ethz.ch | +49 173 2328586 | gaborhollbeck.com Gabor Hollbeck is a physics graduate researcher interested in computational social science, AI4Democracy applications and AI safety research.

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Education	
M.Sc. Physics, ETH Zürich Focusing on complex system dynamics	Sept 2022 – Present
Visiting Undergraduate Student , ETH Zürich	Sept 2021 – Feb 2022
B.Sc. Physics, Universität Duisburg-Essen, ranked first in cohort	Sept 2019 – Sept 2022
Experience	
Student Researcher , Comparative Global Humanities Initiative @MIT with Prof. Wiebke Denecke and Prof. Otto Scharmer	Jan 2025 – Present
Student Researcher, Computational Social Science Group, Prof. Dirk Helbing • Complex system optimization via genetic algorithms	Feb 2024 – Present
Student Assistant, Institute for Machine Learning @ETH Zürich	Nov 2023 – Apr 2024
Student Researcher, Rahman-spectroscopy on graphen, Prof. Marika Schleberger	Sept 2020 – Mar 2021
Publications	
Cannot or Should Not? Automatic Analysis of Refusal Composition in IFT/RLHF Datasets and Refusal Behavior of Black-Box LLMs, NeurIPS (2024)	2024
Congestions and Spectral Transitions in Time-Lagged Correlations of Motorway Traffic. Physica A: Statistical Mechanics and Its Applications, vol. 649, 2024	2024
Coding Projects & Initiatives	
Diplomatica.ai – Duolingo for Conflict resolution, Emotional Intelligence, AI Conversation Simulator that gives feedback on communications skills	2024 – Presen
Founder, <u>Electomate</u> – Conversational Election Tool	2024 – Presen
Recruiting and leading a team of 20+ people Co-Founder, The ETH Zürich Alt Protein Project	Nov 2023 – Presen
• Think tank and part of of Alt Protein Projects, funded by the GFI (Good Food Institute) transformation of the way we produce food sustainably.), fostering the
• Recruiting and leading a team of 10+ people.	

Skills & Interests

Languages: German and Hungarian (native speaker), English (C2), French (B1)

Youtube Content Creator, Polylog (YouTube Channel on theoretical CS)

Software/coding: Python (5+y), Julia (1 semester), React (1y), MATLAB (1 semester), Mathematica (2y), Adobe

2024 - Present

Interests: Social Entrepreneurship, AI4Good, Complex System Dynamics, Climate Change, Mindfulness

Awards and Scholarships

Winner of <u>Politechathon Berlin 2024</u> | 1st Place, National Photography Competition of Deutsche Stiftung Denkmalschutz (3000+ participants) | 1st Place in <u>3Blue1Brown Competition "Summer of Math exposition"</u> | Scholar of the federal merit-based "Deutschland Stipendium"