

# Gabor Hollbeck

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Gabor Hollbeck is a physics graduate researcher interested in computational social science,  
AI4Democracy applications and AI safety research.

## Education

<b>M.Sc. Physics</b> , ETH Zürich   Focusing on complex system dynamics	Sept 2022 – Present
<b>Visiting Undergraduate Student</b> , ETH Zürich	Sept 2021 – Feb 2022
<b>B.Sc. Physics</b> , Universität Duisburg-Essen, ranked first in cohort	Sept 2019 – Sept 2022

## Experience

<b>Student Researcher</b> , Computational Social Science Group, Prof. Dirk Helbing • Complex system optimization via genetic algorithms	Feb 2024 – Present
<b>Student Assistant</b> , Institute for Machine Learning @ETH Zürich	Nov 2023 – Apr 2024
<b>Student Researcher</b> , Rahman-spectroscopy on graphen, Prof. Marika Schleberger	Sept 2020 – Mar 2021

## Publications

<b>Cannot or Should Not? Automatic Analysis of Refusal Composition in IFT/RLHF Datasets and Refusal Behavior of Black-Box LLMs</b> , NeurIPS (2024)	2024
<b>Congestions and Spectral Transitions in Time-Lagged Correlations of Motorway Traffic</b> . Physica A: Statistical Mechanics and Its Applications, vol. 649, 2024	2024

## Coding Projects & Initiatives

<b>Diplomatica.ai</b> – Duolingo for Conflict resolution, Emotional Intelligence, AI Conversation Simulator that gives feedback on communications skills	2024 – Present
<b>Founder, Electomate</b> – Conversational Election Tool • Recruiting and leading a team of 20+ people	2024 – Present
<b>Co-Founder, The ETH Zürich Alt Protein Project</b> • Think tank and part of of Alt Protein Projects, funded by the GFI (Good Food Institute), fostering the transformation of the way we produce food sustainably. • Recruiting and leading a team of 10+ people.	Nov 2023 – Present
<b>Youtube Content Creator, Polylog</b> (YouTube Channel on theoretical CS)	2024 – Present

## Skills & Interests

**Languages:** German and Hungarian (native speaker), English (C2), French (B1)  
**Software/coding:** Python (5+y), Julia (1 semester), React (1y), MATLAB (1 semester), Mathematica (2y), Adobe  
**Interests:** Climate Change, Concepts of Effective Altruism (critique best described [here](#)), Mindfulness, Rationality, Social Entrepreneurship, AI4Good, Complex System Dynamics

## Awards and Scholarships

Winner of <u>Politechathon Berlin 2024</u>   Project Grant for young Students with sustainability focused initiatives - U-Change program   1st Place in 3Blue1Brown Competition "Summer of Math exposition"	2024
Scholar of the federal merit-based "Deutschland Stipendium"	Sept 2021 – Sept 2022