

# SAMUEL NELLESSEN

## AI SAFETY RESEARCHER

+49 1522 8982798  
samuelgerrit.nellessen@gmail.com  
snellessen.com  
LinkedIn

EDUCATION	Radboud University <i>B.Sc. in Artificial Intelligence (Honours Programme)</i>	Nijmegen, Netherlands 2023 - 2026 (expected)
	<ul style="list-style-type: none"><li>• Current GPA: 4.00/4.00 (Dutch system: 8.9/10). Top of class.</li></ul>	
	Neuromatch Academy <i>Computational Neuroscience &amp; Deep Learning</i>	Remote / Summer School Jul 2023
	<ul style="list-style-type: none"><li>• Completed intensive 3-week curriculum on biologically plausible learning rules and high-dimensional data analysis.</li></ul>	
	Otto-Von-Guericke-University / Stendal University <i>B.A. Philosophy, Neuroscience &amp; B.Sc. Psychology (Foundational Studies)</i>	Germany 2020 - 2023
	<ul style="list-style-type: none"><li>• Consistently ranked in top percentile (GPA ≈ 3.9/4.0). Transferred to Radboud to specialize in technical AI.</li></ul>	
EXPERIENCE	Student Researcher   KachmanLab @ Radboud University	Sep 2025 - Present
	<ul style="list-style-type: none"><li>• Developing novel jailbreaking techniques and adversarial attacks on LLMs.</li><li>• Orchestrating multi-GPU distributed training (Slurm/HPC) for Group Relative Policy Optimization (GRPO) to test alignment boundaries.</li></ul>	
	ARENA 5.0 Fellow   Alignment Research Engineer Accelerator	Apr 2025 - Jun 2025
	<ul style="list-style-type: none"><li>• Selected for competitive fellowship with 4% acceptance rate, training alongside PhDs and industry professionals.</li><li>• Implemented Transformers from scratch and conducted deep dives into RLHF and interpretability.</li></ul>	
	Research Assistant & Foresight Fellow   Donders Institute / Foresight Institute	Feb 2024 - Present
	<ul style="list-style-type: none"><li>• Architected a scalable model-fitting pipeline on Slurm HPC clusters to quantify controllability, translating theoretical frameworks into executable code.</li><li>• Selected as <b>Foresight Fellow</b> to lead computational modeling of agency, independently developing algorithms to extract latent parameters from behavioral data.</li></ul>	
	AI Safety Grantee & Scholar   Long-Term Future Fund / AIMM	Jul 2022 - Sep 2023
	<ul style="list-style-type: none"><li>• Awarded competitive grant (&lt;5% acceptance) and mentorship to execute independent research under Jan Hendrik Kirchner (OpenAI/Anthropic).</li></ul>	
SKILLS	AI Safety & Research: LLM Jailbreaking, Adversarial Attacks (GRPO), Red Teaming, Representation Engineering, Mechanistic Interpretability.	
	Engineering: LLM Fine-Tuning (RLHF, Verifiers), Multi-GPU Distributed Training, Model Optimization.	
	Stack: Python (PyTorch, Pandas, Transformers, AgentDojo), Slurm/HPC, JavaScript (React), MATLAB, Stan, Java, Scala.	
PROJECTS	ARENA 5.0 Capstone: Internal Representations in SONAR Autoencoders	2025
	<i>Executed intensive 5-day research sprint in Mechanistic Interpretability. Analyzed model representations to identify features correlated with correctness.</i>	
	AI Safety Camp 2025: Reasoning Capabilities of LLMs	2025
	<i>Mechanistic Interpretability research in an international team. Aiming for publication at NeurIPS/ICLM workshops. Paper available on ArXiV.</i>	
LEADERSHIP & AWARDS	<ul style="list-style-type: none"><li>• Technical Advisor, Foresight AI Safety Grant Program</li><li>• User Experience Lead, Fridays for Future International</li><li>• Top of Year (Philosophy), A-levels</li></ul>	2024 2019-2020 2019