

# STIAN GRØNLUND

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*I am building quantitative skills to help avert future catastrophes brought on by transformative artificial intelligence, focused on fundamental, technical solutions to the alignment problem.*

## INTERESTS

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**Personal Interests:** Rationality, Effective Altruism, Bayesian Statistics, Computational Complexity, Predictive Processing, Foundations of Mathematics, Functional Programming.

**Research Interests:** Cooperative AI, Safe-guarded AI, Agent Foundations.

## PROJECTS

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- Implementation of Hamiltonian Monte Carlo, in Python with JAX
- Conjugate Gradient Descent for a binary classification problem
- Iterative improvement and simulated annealing for combinatoric optimization in Ising Models
- Linear Quadratic Gaussian Control on a stochastic double integrator
- Constructing and testing a DAG of Heart Disease data and isolating the causal effects of variables of interest, using covariate adjustment

## EDUCATION

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### 2024-09 – PRESENT

*AI: Cognitive Computing Master*

#### Radboud University Nijmegen

In the first semester of my Master I have achieved consistent high achievement in courses on Machine Learning, Causal Inference, Dynamical Systems, and more. I have implemented several algorithms in Python, and done statistical modelling in R.

### 2023-09 – 2024-07

*AI: Cognitive Computing, Pre-Master*

#### Radboud University Nijmegen

A 1-year course to prepare transferring students for the AI master at Radboud. Courses taken: Intro to Formal Reasoning, Calculus, Programming, AI: Principles & Techniques, and Theoretical Modelling for Cognitive Science.

### 2021-09 – 2022-08

*Performance Psychology, MSc*

#### Edinburgh University

Carried out a qualitative research study on the decision-making processes of expert forecasters.

## TECHNICAL SKILLS

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- **Programming:** Python, JAX, R, Git
- **ML:** Perceptron Learning, Monte Carlo
- Hamiltonian Monte Carlo, Bayesian Statistics
- Causal Inference, Bayesian Networks & Structural Equation Modeling
- Dynamical Systems, Numerical Integration

## SKILLS

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- Independent
- Motivated
- Group coordination
- Events planning
- English, Norwegian, basic Mandarin Chinese

## WORK

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### 2024-09-01 – Present

*Teaching Assistant, AI: Principles & Techniques*  
**Radboud University Nijmegen**

Helping students understand and implement classical AI material and algorithms like computational complexity, game search, constraint satisfaction, and variable elimination in Bayesian Nets.

### 2022-12-01 – 2023-06-01

*Communications Lead EAGxNordics 2023*

#### Effective Altruism Norway

Work as comms lead included audience outreach and attendee communication, copywriting, managing our event networking app, and Slack event workspace, for this 500-person event.

## EXPERIENCE

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### 2023-10 – PRESENT

*Organiser, EA Nijmegen*

#### Effective Altruism Nijmegen

In the past year I have been organizing various activities with EA Nijmegen, starting with a locally run version of the AGI Safety Fundamentals Course in Winter 23/24, and an Intro Course Programme for Fall 24. These courses involve guiding discussion groups for 4-8 attendees, focusing on global pressing issues like animal welfare, global poverty, and risks from advanced technologies.