

# Sean Brynjólfsson

Hi. I'm Sean. I study Computer Science  
@ Cornell University, College of Engineering.

## 1 Education

**Major:** Computer Science  
**Expected Graduation Date:** May 2025  
**Cumulative GPA:** 3.90

## 2 Experience

### Teaching Assistant, Deep Learning (CS 4782) – Cornell University

*Ithaca, NY. Spring Semester 2025*  
I am a teaching assistant for Cornell's *Deep Learning* course for Prof. Killian Weinberger and Prof. Jennifer Sun. As the first open enrollment of the course, I played a large role in refining the course content. I wrote several of the paper quizzes for the graduate portion of the course, improved/tested the assignments, and was one of the lecturers for a 3-hour recitation before our exam.

### Student Researcher – Robotic Systems Lab, ETH Zürich × Cornell University

*Zürich, Switzerland. Summer 2023*  
While at the ETH, we conducted research on traversability for legged robots, namely the ANYbotics ANYmal D. We prototyped a novel semantic image segmentation model able to distinguish between traversable and untraversable terrain zero-shot from language and deployed it on the live robot. Simultaneously, we made an extension for Omniverse that voxelizes the environment while the robot walks around; a GUI interface can synchronously segment it based on a user's open vocabulary input.

### (Head) Teaching Assistant (CS 1620) – Cornell University (x2)

*Ithaca, NY. Fall 2023 & Fall 2024*  
I was a teaching assistant (and then most recently head TA) for Prof. Donald Greenberg's course *Visual Imaging in the Electronic Age*, which is a crash-course overview of the history and recent research in many areas of Computer Graphics, Human Perception, and Computer Vision to cover current and future opportunities.

### Software Developer – NVIDIA × Cornell University

*Ithaca, NY. Summer 2022*  
Over the Summer, my subteam of our lab engineered Omniverse extensions for building information modeling. The primary contribution we made was our EnergyPlus extension/connector, which takes in the native output of EnergyPlus and categorizes the information so that it can be visualized on a twin of the model in Omniverse; we also made an extension utilizing color to visualize sun conditions over time.

### Software Developer – Star-Oddi × Snorraverkefnið

*Reykjavík, Iceland. Summer 2024*  
While on the Snorri Program, I spent my brief volunteer period at the environmental biotech company Star-Oddi, where I prototyped an application for farmed salmon that receives signals from their embedded data loggers, logs the signals, and then presents it on an online dashboard.

## 3 Select Research Projects

### Automatically Rigged Gaussian-Splatted Character Models

Sean Brynjólfsson, Justin Tien, Evan Zhang

### Learned Traversability Priors for Visual Navigation

Sean Brynjólfsson, Will Huey

### Let it SIMmer: Lazily-Evaluated Embeddings in Robotic Navigation and Digital Twins

Sean Brynjólfsson, Will Huey

### LLMímir: Svá, GPT-4, hversu vel talar þú fornorrænu? [So, GPT-4, how well do you speak Old Norse?]

Sean Brynjólfsson

## Contact Information

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## Programming Languages

Python	☆☆☆
C/C++	☆☆
Java	☆☆
CUDA	☆☆
OCaml	☆☆
TypeScript	☆☆
Rust	☆☆
Bash	☆
ROS	☆
Gleam	☆

## Awards & Recognition

Cornell Dean's List:  
Fall 2021–Fall 2024  
(All Semesters)

## Research Interests

Graphics  
Robotics  
Digital Twins  
Computer Vision  
Digital Agriculture

## Skills

PyTorch  
Linux  
Isaac Sim  
Graphic Design  
LaTeX  
Desmos

## Groups & Involvement

Cornell Anglers' Society  
Old Norse Reading Club  
Cornell Dairy Science Club  
Alpha Gamma Rho, Zeta  
Snorraverkefnið