

Ignat Georgiev

Applied Scientist | Robot Learning

I'm passionate about advancing robot learning through large-scale, data-driven methods. Set to complete my PhD in 2025 under [Animesh Garg](#), I focus on **Reinforcement Learning, Behavioral Cloning, large world models, and optimization theory**. I pair a rigorous scientific approach with strong engineering skills and a pragmatic, can-do mindset essential for making everyday robots a reality..

Selected Publications

[PWM: Policy Learning with Multi-task World Models](#)

Ignat Georgiev, Varun Giridhar, Nicklas Hansen, and Animesh Garg
International Conference on Learning Representations (ICLR), 2025

[Adaptive Horizon Actor-Critic for Policy Learning in Differentiable Simulation](#)

Ignat Georgiev, Krishnan Srinivasan, Jie Xu, Eric Heiden, and Animesh Garg
International Conference on Machine Learning (ICML), 2024

Work Experience

Senior Machine Learning Engineer | Tesla, USA

2025

- Scaling AI for robot decision-making

Research Intern | The AI Institute, USA

Aug - Dec 2024

- Research on multi-task world model policies for real-world dexterous manipulation

Applied Scientist | Oxitica, UK

2021 - 2022

- Developed adversarial agents using RL and meta-learning for edge-case scenario discovery for autonomous vehicles as part of the [MetaDriver product](#)
- Worked with Python, PyTorch, and large-scale clusters and distributed training

Research Engineer | Kopernikus Automotive, Germany

2020 - 2021

- Worked on autonomous valet parking product based on external cameras
- Designed a hybrid path planning system for parking combining random sampling and numerical optimization in Rust and C++
- Successfully led a project to integrate with 5 OEMs and [demo product at IAA](#)

Founder & AI Team Lead | Edinburgh University Formula Student

2017 - 2020

- Founded and led a student project to develop an [autonomous racecar](#)
- The team won 2 international competitions and raised a budget of over £70,000
- [Architected and led the development of the AV stack with ROS / C++ / Python](#)

Education

PhD Machine Learning

Georgia Institute of Technology, USA

2022 - present

- Graduating 2025; finishing thesis in industry

MSc Robotics and Artificial Intelligence

The University of Edinburgh, UK

2015 - 2020

- First-Class Honors (4.0 GPA)
- Focus on linear algebra, probability, robotics, ML, RL, and optimal control
- Thesis: Adaptive Motion Control for Autonomous Racing

Contact Details

Email: ignat@imgeorgiev.com

Website: imgeorgiev.com

LinkedIn: [imgeorgiev](https://www.linkedin.com/in/imgeorgiev/)

GitHub: [imgeorgiev](https://github.com/imgeorgiev)

Technical skills

Python

PyTorch

C++ (11/14/17)

Rust

ROS / ROS2

Reinforcement Learning (RL)

Behaviour Cloning (BC)

World Models

Distributed Training

Differentiable Simulations

ML Infrastructure

Optimization Methods

Professional Skills

Cutting-edge Research

Algorithm Design

Teamwork

Project Management

Leadership

Honors & Awards

Inspirational Graduate

Best Robotics Thesis

Student Employee of the Year