Ahmed Yesuf **Nurye**

PH.D. CANDIDATE

De Boelelaan 1111 (NU building), 1081 HV Amsterdam

a.y.nurye@vu.nl | anurye.github.io | anurye

Research Interests

Human-Interactive Robot Learning; Reinforcement Learning; Mathematical Human Modeling.

Education

Vrije Universiteit Amsterdam — *Amsterdam, The Netherlands*

PH.D. IN COMPUTER SCIENCE — *Oct. 2025 – Oct. 2029*

- Advisors: Prof. Kim Baraka & Prof. Herke van Hoof (University of Amsterdam).

Warsaw University of Technology — *Warsaw, Poland*

M.SC. IN ROBOTICS AND AUTOMATIC CONTROL — *Oct. 2022 – Oct. 2024*

- Advisor: Prof. dr hab.inż. Elżbieta Jarzębowska.
- Thesis: Deep Reinforcement Learning for Mobile Robot Navigation in Dynamic Environments.

Addis Ababa Science and Technology University — *Addis Ababa, Ethiopia*

B.SC. IN ELECTRICAL ENGINEERING — *Oct. 2016 – Sep. 2021*

Experience

The Hybrid Intelligence Centre, VU Amsterdam — *Amsterdam, The Netherlands*

DOCTORAL RESEARCHER — *Oct. 2025 – Present*

- Developing interactive robot learning methods that enable robots to learn from diverse human feedback.

Scania Group — *Gdańsk, Poland*

SYSTEMS ENGINEER — *Apr. 2024 – Oct. 2025*

- Developed safety-critical embedded software for automotive battery systems and contributed to its end-to-end verification and validation.

Northvolt — *Gdańsk, Poland*

SYSTEMS ENGINEER — *Apr. 2024 – Apr. 2025*

- Performed end-to-end V&V of battery management system functions and developed Python packages to automate code generation and streamline system integration.

Publications

🎓 Google Scholar; † → Equal contribution; ‡ → Equal supervision.

CONFERENCE PROCEEDINGS

[C1] A. Y. **Nurye**, K. Baraka, and H. Hoof, "Show & tell: Hierarchical robot learning with human corrective feedback," in *(in submission) IEEE International Conference on Robotics and Automation, ICRA*, 2027.

[C2] A. Y. **Nurye** and E. Jarzębowska, "Deep reinforcement learning for mobile robot navigation in dynamic environments," in *2025 29th International Conference on Methods and Models in Automation and Robotics (MMAR)*, 2025. DOI: 10.1109/MMAR65820.2025.11150841

Teaching

ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY

2022 **[*EEEg4155*] Introduction to Control System**, Teaching Assistant

2021 **[*EEEg3153*] Electrical Measurement & Instrumentation**, Teaching Assistant

VRIJE UNIVERSITEIT AMSTERDAM

2027 **Human-Interactive Agent Learning**, Teaching Assistant

Skills

Programming Languages	Python, C/C++, MATLAB, Bash
Robotics & Simulation	ROS 2, MuJoCo, Gazebo, Isaac Lab, Simulink
Software & Infrastructure	Linux, Git, GitHub, Docker

Tools and Software

GitHub

gym-turtlebot: a turtlebot4 gymnasium environment

website

Python | ROS2 | Gazebo Sim — *Mar. 2025 – Present*

- A minimal ROS2 and Gazebo simulation setup for TurtleBot4 to rapidly prototype DRL navigation agents using the Gymnasium API.

MBD Simulink

GitHub

MATLAB | Simulink — *Dec. 2024 – Present*

- Automates block insertion, naming, and connections in Simulink to streamline model-based design workflows.

Awards and Honors

2022 **Banach Scholarship,** Fully funded 2nd-cycle studies in Poland, covering tuition and living expenses. *NAWA*