

Koffivi Fidèle Gbagbe

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in koffivi

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Technical and Analytical skills

- **Programming Languages:** Python, PyTorch, TensorFlow, C, C++, CUDA C/C++ and Bash
- **Database Management System:** MySQL, SQLite, MongoDB
- **Simulation and Modeling:** Isaac Sim, Gazebo, Robot Operating System (ROS)
- **Version Control:** Git (GitHub)
- **Development Tools:** Visual Studio Code, Docker, Flask, GCC, NVCC, Make, CMake
- **Language:** English (fluent), French (native), Russian (intermediate)

Education

- 2022–2024 **Master's degree in Advanced Computational Science**, *Skolkovo Institute of Science and Technology (Skoltech)*, Moscow-Russia,
- 2021–2022 **Master's degree in Mathematical Sciences**, *African Institute for Mathematical Sciences (AIMS)*, Kigali-Rwanda,
- 2015–2019 **Bachelor's degree in Mathematics**, *University of Lomé*, Lomé-Togo,

Research Experience

- **Skoltech Master's Thesis :** *"Robotic Skill Synthesis for Bimanual Dexterous Manipulation based on Vision-Language-Action Model"*
Supervisor: Prof. Dzmitry Tsetserukou (ISR-Lab, Skoltech - Russia)
- **AIMS-Rwanda Master's Thesis:** *"Approximation of Nonlinear Inverse Operators using Neural Networks with an Application to the Inverse Gravimetry Problem"*
Supervisor: Prof. Jodi Mead (Professor of Mathematics, Boise State University - USA)

Working Experience

- **Junior Lab Assistant at Nanosemantics (July - December 2024)** *"Developing a joint localisation system for several drones using ROS2, ArduPilot and Gazebo."*
References: Aleksey Fedoseev
- **ML Intern at AI Medtech (June - October 2023):** *"Development of machine learning methods (Transformer and CatBoost) for rolling window forecasting of complex table data"*
References: Dr. Oleg Kiriukhin and Dr. Oleg Rogov

Accepted Papers

- **K. Fidele Gbagbe**, M. Altamirano Cabrera, A. Alabbas, O. Alyounes, A. Lykov, D. Tsetserukou, **“Bi-VLA: Vision-Language-Action Model-Based System for Bimanual Robotic Dexterous Manipulations,”** in Proc. IEEE Int. Conf. Systems, Man, and Cybernetics (SMC 2024), Sarawak, Malaysia, 6-10 Oct., 2024, in print. (Scopus and WoS, H-index (SJRI)=66)
- A. Lykov, M. Altamirano Cabrera, **K. Fidele Gbagbe**, D. Tsetserukou, **“Robots Can Feel: LLM-based Framework for Robot Ethical Reasoning,”** in Proc. IEEE Int. Conf. Foundation and Large Language Models (FLLM 2024), Dubai, UAE, 26-29 Nov., 2024.

Submitted Papers

- A. Lykov, M. Konenkov, **K. Fidele Gbagbe**, M. Litvinov, D. Davletshin, A. Fedoseev, M. Altamirano Cabrera, R. Peter, D. Tsetserukou, **“CognitiveOS: Large Multimodal Model based System to Endow Any Type of Robot with Generative AI,”** Submitted for the 2025 IEEE International Conference on Robotics & Automation, 19–23 May, Atlanta, USA.
- A. Lykov, M. Altamirano Cabrera, M. Konenkov, V. Serpiva, **K. Fidele Gbagbe**, A. Alabbas, A. Fedoseev, L. Moreno, H. Khan, Z. Guo, D. Tsetserukou, **“Industry 6.0: New Generation of Industry driven by Generative AI and Swarm of Heterogeneous Robots,”** Submitted for the 2025 IEEE International Conference on Robotics & Automation, 19–23 May, Atlanta, USA.

Awards

- **Skoltech Innovation Workshop 2023:** Best Cohort Project.
- **ESMT-Berlin** Industry Immersion Program 2022.
- **Next Einstein Initiative** Master’s Scholarship Award at the African Institute for Mathematical Sciences, Rwanda.

References

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