Lucas Câmara Dantas Bezerra

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Summary

Ph.D. Candidate in *Electrical and Computer Engineering* at KAUST, supervised by Prof. Shinkyu Park, specializing on Multi-Agent Reinforcement Learning (MARL) for multi-robot systems. Proficient in PyTorch and Python, with a strong foundation in probability, statistics, and Reinforcement Learning (RL), and hands-on experience with drones and embedded systems.

Education

King Abdullah University of Science and Technology   Thuwal, Saudi Arabia
Ph.D. Degree in Electrical and Computer Engineering   *2022 – Present*

- Under the supervision of Prof. Shinkyu Park.
- Working on Multi-Agent Reinforcement Learning (MARL) for Multi-Robot Systems.

King Abdullah University of Science and Technology   Thuwal, Saudi Arabia
M.Sc. Degree in Electrical and Computer Engineering   *2020 – 2021*

- Under the supervision of Prof. Tareq Al-Naffouri.
- Worked on cellular signals statistical modeling and classification given a surrounding environment's geometry.
- GPA: 3.92/4.00

Federal University of Rio Grande do Norte   Natal, Brazil
B.Sc. Degree in Electrical Engineering   *2015 – 2019*

- IEAN[1]: 572.34, top 8% students.

Publications

- **L. C. D. Bezerra**, A. M. G. dos Santos and S. Park, "Learning Policies for Dynamic Coalition Formation in Multi-Robot Task Allocation," in IEEE Robotics and Automation Letters, vol. 10, no. 9, pp. 9216-9223, Sept. 2025. [IEEEXplore] [arXiv]

- S. Park and **L. C. D. Bezerra**, "Robust Multi-Agent Decision-Making in Finite-Population Games," accepted to the 64th IEEE Conference on Decision and Control, Dec. 2025. [arXiv]

- **L. Bezerra**, N. Kouzayha, H. ElSawy, A. Bader, and T. Y. Al-Naffouri, "CSI-Based Proximity Estimation: Data-Driven and Model-Based Approaches," in IEEE Open Journal of the Communications Society, vol. 5, 2024. [IEEEXplore]

- **L. Bezerra**, "A Bayesian Approach to D2D Proximity Estimation using Radio CSI Measurements." [KAUST Repository]

Professional Appointments

MOBiSENSE   Thuwal, Saudi Arabia
Co-founder and MLOps Engineer   *2021 – Present*
Machine learning model deployment and monitoring on a cloud infrastructure.

King Abdullah University of Science and Technology   Thuwal, Saudi Arabia
Research Intern   *2019*
Deployment of a acoustic-based real-time indoor localization system on the ESP32 microcontroller. Worked under supervision of Prof. Tareq Al-Naffouri at the Information Systems Lab.

Awards and Funding

Nominated to CEMSE's Dean's List (awarded to the top-20% students).   *2024*

MOBiSENSE admitted to the TAQADAM Startup Accelerator, awarded $20,000.   *2023*

1st place in the Digital Innovation Awards, Ministry of Communications of Saudi Arabia, awarded $21,000.   *2021*

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[1]Normalized Academic Efficiency Index