Gwendal Beaumont
Ph.D. student in Software Engineering

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Education

Ph.D. - Software Engineering Brest, FR
IMT Atlantique Oct 2023 - Present
Title of thesis: TwinDevOps, an automated process for the deployment and dynamic evolution of Digital Twins.

Engineer's Degree - General Engineering Alès, FR
IMT Mines Alès Aug 2020 - Sept 2023
Software Engineering and Artificial Intelligence Department.

Classe préparatoire aux grandes écoles Caen, FR
Lycée Malherbe Aug 2018 - Jul 2020
Main courses: Mathematics, Physics, Computer Sciences

Experience

ALTEN Rennes, FR
Intern Mar 2023 – Sep 2023
Research intership on the labelling process of data in order to be used with Machine Learning algorithm.
- Creation of an application
- Creation of a framework

Miami University Oxford, OH, USA
Visiting International Scholar Apr 2022 – Aug 2022
Internship as an assistant in the preparation of a master thesis on the effect of errors in agent-based simulation systems.
- State of the art
- Creating an agent-based simulation in Python
- Machine Learning

Leadership & Activities

Ph.D. Students representative at the board of directors FR
Mines-Télécom Institute Dec 2023 – Present
IMT PhD Students representative at the national level for two years. I took part in the board of directors of the Institute and a work group that works towards respect and egality.
- Creation of a national Ph.D. students network
- Creation of national events for Ph.D. students

Communications Manager Alès, FR
IMT Mines Alès Student Council Mar 2021 – Mar 2022
Member of the communications managers team for the student council during a year.
- Administration of a website
- Managing social networks
- Answering emails and comments on social networks

Publications

Beerman, J. T., G. G. Beaumont, and P. J. Giabbanelli. "On the Necessity of Human Decision-Making Errors to Explain Vaccination Rates for Covid-19: an Agent-Based Modeling Study". In: *2023 Annual Modeling and Simulation Conference (ANNSIM)*. Los Alamitos, CA, USA: IEEE Computer Society, May 2023, pp. 413–424. URL: https://doi.ieeecomputersociety.org/.

Beerman, Jack T., Gwendal G. Beaumont, and Philippe J. Giabbanelli. "A framework for the comparison of errors in agent-based models using machine learning". In: *Journal of Computational Science* 72 (2023), p. 102119. ISSN: 1877-7503. DOI: https://doi.org/10.1016/j.jocs.2023.102119. URL: https://www.sciencedirect.com/science/article/pii/S1877750323001795.
– "A Scoping Review of Three Dimensions for Long-Term COVID-19 Vaccination Models: Hybrid Immunity, Individual Drivers of Vaccinal Choice, and Human Errors". In: *Vaccines* 10.10 (2022). ISSN: 2076-393X. DOI: 10.3390/vaccines10101716. URL: https://www.mdpi.com/2076-393X/10/10/1716.

Skills & Interests

Technical: C, C++, Dart, Java, JavaScript, Python, Spring Boot, TypeScript
Language: French (native), English (fluent), Spanish (intermediate), Korean (basics)
Laboratory: P4S team in Lab-STICC, CNRS, UMR 6285
Interests: Bouldering, Coding, Motorsport, Music,Running