

Gwendal Beaumont

Ph.D. Student in Software Engineering

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Education

- 2023–Present **Ph.D. - Software Engineering**, *IMT Atlantique & IMT Mines Alès*, Brest, FR
Title of the thesis: TwinDevOps, an automated process for the deployment and dynamic evolution of Digital Twins.
- 2020–2023 **Engineer's Degree - General Engineering**, *IMT Mines Alès*, Alès, FR
One and a half year of general training followed by one and a half year in the Software Engineering and Artificial Intelligence Department.
- 2018–2020 **Classe préparatoire aux grandes écoles**, *Lycée Malherbe*, Caen, FR
Two-year intensive training to prepare for the French engineering schools competitive exam.
Main courses: Mathematics, Physics, Computer Sciences.

Experience

- 2023–2023 **Intern**, *ALTEN*, Rennes, FR
Research internship on the labelling process of data in order to be used with Machine Learning algorithms.
Detailed achievements:
 - Creation of a framework to manage unlabelled data and get statistics from the data
 - Creation of an application
 - Front-end in TypeScript with the Electron framework;
 - Back-end reusing the framework we created in Java with the Spring Boot framework;
- 2022–2022 **Visiting International Scholar**, *Miami University*, Oxford, OH, USA
Internship as an assistant in the preparation of a master thesis on the effect of errors in agent-based simulation systems.
Detailed achievements:
 - State of the art on the topic of errors representation in computer simulation
 - Creation of a simulation framework in Python to take errors into account
 - Creation of multiple agent-based simulations in Python to test our framework

Leadership & Activities

- 2023–Present **Ph.D. students representative at the board of directors**, *Institut Mines-Télécom*, FR
IMT Ph.D. students representative at the national level for two years. I take part in the board of directors and a work group focused on respect and equality.
 - Creation of a national Ph.D. students network
 - Creation of national events for Ph.D. students
- 2021–2022 **Communication Manager**, *IMT Mines Alès student council*, Alès, FR
Member of the communication managers team for the student council during a year.
 - Administration of a website
 - Management of social networks
 - Answering and moderating emails and comments on social networks

Languages

French Native
Spanish Intermediate

English Fluent (TOEIC: 975/990)
Korean Basics

Computer skills

Coding C/C++, Dart, Java, JavaScript/TypeScript, Python
Infra Linux, Docker, Network, SQL

Interests

Motorsports Formula 1, motorbikes Music
Sports Badminton, rock climbing and running

References

- [1] J. T. Beerman, 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)*, pages 413–424, Los Alamitos, CA, USA, 5 2023. IEEE Computer Society.
- [2] Jack T. Beerman, Gwendal G. Beaumont, and Philippe J. Giabbanelli. A scoping review of three dimensions for long-term covid-19 vaccination models: Hybrid immunity, individual drivers of vaccinal choice, and human errors. *Vaccines*, 10(10), 2022.
- [3] Jack T. Beerman, Gwendal G. Beaumont, and Philippe J. Giabbanelli. A framework for the comparison of errors in agent-based models using machine learning. *Journal of Computational Science*, 72:102119, 2023.