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

Vocational

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 woth 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 simulaitons 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 druing a year.
- Administration of a website
- Management of social networks
- Answering and moderatins emails and comments on social networks

Languages

French	Native	English	Fluent *(TOEIC: 975/990)*
Spanish	Intermediate	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.