

Quentin Guimard

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PhD student in computer science at Université Côte d'Azur

Expected graduation date: December 2023

Employment History

- Oct 2020 – Present **PhD student**, Université Côte d'Azur, Laboratoire d'Informatique, Signaux et Systèmes de Sophia Antipolis (I3S). *Sophia Antipolis, France.*
- Apr 2023 – Jun 2023 **PhD intern**, Centrum Wiskunde & Informatica (CWI). *Amsterdam, Netherlands.*
- Jul 2021 – Aug 2021 **Visiting PhD student**, Università degli Studi di Firenze, Media Integration and Communication Center (MICC). *Florence, Italy.*
- Sep 2019 – Sep 2020 **Data scientist apprentice**, Thales Services. *Sophia Antipolis, France.*
- Jul 2019 – Aug 2019 **Research assistant intern**, Université du Québec à Montréal (UQAM). *Montreal, Canada.*

Education

- 2020 – Present **PhD, Université Côte d'Azur** in Computer Science.
Machine Learning-based Strategies for Streaming and Experiencing Virtual Reality.
- 2017 – 2020 **Master's degree, Polytech Nice Sophia** in Computer Science.
Master's / diplôme d'ingénieur double degree. Specialization: Data Science.
- 2018 – 2019 **Erasmus exchange, Université Catholique de Louvain** in Computer Science.
Duration: One semester.

Research Publications

Conference Proceedings


- Guimard, Q.**, & Sassatelli, L. (2023). SMART360: Simulating Motion Prediction and Adaptive BitRate Strategies for 360° Video Streaming. In *Proceedings of the 14th ACM Multimedia Systems Conference (MMSys '23)*, ACM.
- Guimard, Q.**, Robert, F., Bauce, C., Ducreux, A., Sassatelli, L., Wu, H.-Y., ... Gros, A. (2022a). On the link between emotion, attention and content in virtual immersive environments. In *Proceedings of the 2022 IEEE International Conference on Image Processing (ICIP)*, IEEE.
- Guimard, Q.**, Robert, F., Bauce, C., Ducreux, A., Sassatelli, L., Wu, H.-Y., ... Gros, A. (2022b). PEM360: A dataset of 360° videos with continuous Physiological measurements, subjective Emotional ratings and Motion traces. In *Proceedings of the 13th ACM Multimedia Systems Conference (MMSys '22)*, ACM.
- Guimard, Q.**, & Sassatelli, L. (2022a). Effects of Emotions on Head Motion Predictability in 360° Videos. In *Proceedings of the 14th International Workshop on Immersive Mixed and Virtual Environment Systems (MMVE '22)*, ACM.
- Guimard, Q.**, & Sassatelli, L. (2022b). Machine learning-based strategies for streaming and experiencing 3DoF virtual reality: research proposal. In *Proceedings of the 13th ACM Multimedia Systems Conference (MMSys '22)*, ACM.

- 6 **Guimard, Q.**, Sassatelli, L., Marchetti, F., Becattini, F., Seidenari, L., & Del Bimbo, A. (2022). Deep Variational Learning for Multiple Trajectory Prediction of 360° Head Movements. In *Proceedings of the 13th ACM Multimedia Systems Conference (MMSys '22)*, ACM.







Preprints

- 1 Sawadogo, A. D., **Guimard, Q.**, Bissyandé, T. F., Kaboré, A. K., Klein, J., & Moha, N. (2021). *Early Detection of Security-Relevant Bug Reports using Machine Learning: How Far Are We?* Retrieved from <https://arxiv.org/abs/2112.10123>





Awards and Achievements

- 2022  **Best Paper Award**, ACM MMSys 2022. For the paper “Deep Variational Learning for Multiple Trajectory Prediction of 360° Head Movements”.




Teaching Experience

- 2020 – 2023  **Introduction to Imperative Programming (Python)**. Polytech Nice Sophia.
Teaching assistant. Undergraduate course.
-  **Algorithms and Data Structures (Java)**. Polytech Nice Sophia.
Teaching assistant. Undergraduate course.
- 2022 – 2023  **Machine Learning**. Polytech Nice Sophia.
Teaching assistant. Graduate course.
- 2020 – 2022  **From Shallow to Deep Learning**. Polytech Nice Sophia.
Teaching assistant. Graduate course.
- 2021  **Deep Reinforcement Learning**. UCA Deep Learning School.
Teaching assistant. Summer school interactive tutorial.
-  **Visual recognition and Domain adaptation**. UCA Deep Learning School.
Teaching assistant. Summer school interactive tutorial.




Skills

- Programming  Python, Java, C#, C/C++, Javascript/Typescript, R, Matlab, SQL, XML, \LaTeX
- Libraries  NumPy, PyTorch, Keras, TensorFlow, OpenCV, Scikit-learn, Pandas
- Databases  ElasticSearch, HDFS, PostgreSQL, HSQLDB, ClickHouse
- Misc.  Academic research, teaching, user experiments, Git version control

Certifications

- 2020  **EF Standard English Test (EF SET)**. 89/100 (C2 proficient).
- 2019  **TOEIC Listening and Reading**. 985/990 (C1).
- 2017  **Certificat Voltaire**. 938/1000 (expert). French grammar proficiency certification.

Languages

- French  Native proficiency
- English  Full professional proficiency
- Spanish  Limited working proficiency