Tonglin YAN

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EDUCATION

Paris-Saclay University   Paris, France
PhD in Psychology   *10/2023 – present*
Advised by Prof. David Rudrauf, co-supervised by Prof. Alain Finkel and Prof. Grégoire Sergeant-Perthuis
Thesis title: Integration of advanced multimodal machine learning models in the Projective Consciousness Model for the study of non-verbal and verbal social behaviors in virtual reality.

University of Rouen Normandy   Rouen, France
M.S. in Data Science and Engineering   *09/2021 – 09/2022*
Co-accredited with the INSA Rouen Normandie

INSA Rouen Normandie (Institut national des Sciences Appliquées Rouen Normandie)   Rouen, France
Engineering degree in Mathematical and Software Engineering   *09/2017 – 09/2022*

PERFESSIONAL EXPERIENCE

GuanYun Technology   *02/2023 – 06/2023*
Algorithm engineer
- Development of a motion capture system based on 9-axis inertial measurement unit.
- Simulation of human mouvement with Unity3D.

Sorbonne University   *03/2022 – 09/2022*
Research assistant at the ISIR laboratory
- Objective: Design a pipeline for constructing a dataset in the field of biology.
- Library research on language models and question-answering systems.
- Fine-tuning of BERT and T5 models for the specific task and performance evaluation.
- Construction and evaluation of a pipeline.

New York University   *06/2021 – 09/2021*
Research assistant in Machine Learning
- Goal: Prediction of animal trajectories (ants and birds).
- Data collection, cleaning, and imputation using linear regression.
- Feature extraction, sequential data analysis (random forest), and hyperparameter tuning.

Deloitte China   *07/2020 – 09/2020*
PTA in Consulting Department
- Case study on "Markdown (promotion)": Responsible for gathering reports on commercial activity markdown, and preparing a slide to explain the definition, the classification of the markdown, the method to assess the impact of a promotional activity, and planning the most appropriate promotional activities for clients.

ACADEMIC EXPERIENCE

Qualia Structure Summer School   *Japan, 06/2024*

SKILLS AND INTERESTS

- **Programming languages:** Python, C#, Java, C++, R, Fortran, MySQL.
- **3D modeling Tools:** blender, Unity 3D, OpenSIM
- **Languages:** Mandarin; French; English; Japanese (beginner), Spanish (beginner).
- **Interests:** Yoga (China-India Yoga Institute yoga instructor certification), Chinese Calligraphy, Climbing, Travelling.