

# Tonglin YAN

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Github: <https://github.com/tonglinyuan>

## EDUCATION

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### 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

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### GuanYun Technology

02/2023 – 06/2023

*Algorithm engineer*

- Development of a motion capture system based on 9-axis inertial measurement unit.
- Simulation of human movement 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

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### Qualia Structure Summer School

Japan, 06/2024

## SKILLS AND INTERESTS

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- **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, Travelling.