THÉO ANDRÉ

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theoanalyse | Referee : Florence Hubert

LANGUAGES

French: Native

English: C1

- Following many English Online Courses
- Attended preparation for the TOEFL exam
- International Master Program
- Erasmus International English Language Test

Spanish: A2

QUALITIES

Hard Worker
Attentive
Passionate
Inquisitive
Autonomous
Interdisciplinar

STRENGTHS

- Quick Learner
- Detail-Oriented
- Creative Thinker
- Persistent
- Can work alone or in team

LEARNING

- Math modeling
- Computer Science
- Progamming
- Biology
- Dynamical systems

ABOUT ME

Young graduate student, I obtained my bachelor in theoretical mathematics, with minors in Probabilities, Statistics and Numerical Analysis. I am now in the second year of a highly interdisciplinary Masters program (CMB) at the interface between mathematics, biology and computer science. My interests lie in the study and modelling of dynamical systems, or more generally PDE systems, as I seek to sharpen my maths skills every day.

EDUCATION AND DIPLOMAS

Scientific Baccalauréat with mathematics major | Lycée Jean Lurçat

07 / 2018 — Martigues, France

Mathematics degree with Probabilities and statistics, Numerical Analysis and Optimisation majors | Faculté des Sciences d'Aix-Marseille Université

06/2021 — Marseille, France

CENTURI Masters in Computational and Mathematical Biology, Math modelling Major (1st year major with an average score of 17.5) | Faculté des Sciences d'Aix-Marseille Université

Since 08/2021 — Marseille, France

PROJECTS

Administration council member of the "Math Pour Tous" association, multiple vulgarization presentations and interventions to inspire and introduce midschool and highschool students research
(Forum des Mathématiques d'Aix-en-Provence et Marseille / CIRM)

since 2016 — Marseille/ Aix-en-Provence, France

A* and Dijkstra pathfinding algorithms implementation applied to graphs problems

11 / 2020 — Marseille, France

Bachelor Thesis on Compartimental models: discrete, continous and asymptotic analysis of the SIR model

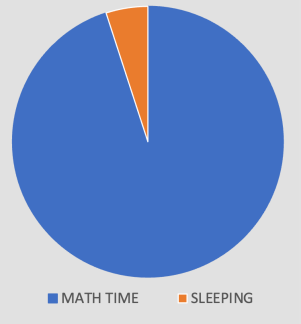
12 / 2020 — Marseille, France

- PDEs

HOBBIES

- Learning new Languages
- Programming Games
- Sharing my love for maths
- Solving puzzles
- Playing the guitar
- Hiking

CLASSICAL DAY



I was not surprised that people were using [LaTeX], I was surprised they still used it 10 years later and did not come up with something better.

Leslie Lamport

Active research work on Hilbert X problem about bounds on differential equations and universal pairs. High Order Logic (HOL) programming on Isabelle's theorem prover with Dierk Schleicher, Yuri Matiyasevich and Al.

Since 2021 — Marseille, France

CENTURI Summer School: Single Cell RNA-seq Analysis and clustering method at CIML with Pierre Milpied

06/2021 — Marseille, France

Active member of the CIRM's projects oriented towards the vulgarization of mathematics

Since 2021 — Marseille, France

Intern at I2M on the dynamical study of embryogenesis and molecular diffusion across the living fly embryo (supervised by Philippe Roudot, Claudiot Collinet and Thomas Lecuit)

04 / 2022 — Marseille, France

CENTURI Summer School : Physical Biology of the Cell - Rob Phillips & Soichi Hirokawa (with personal congratulations from the lecturers)

05 / 2022 — Marseille, France

CENTURI Hackathon 2022: Optimal Frame Sampling in live microscopy (Team of Philippe Roudot)

06 / 2022 — Marseille, France

Nominated Young Researcher and Alumni of the Heidelberg Laureate Forum Foundation (HLFF)

09 / 2022 — Marseille, France

Research School: Jean Morlet Chair - CIRM

09/2022 - 12/2022 — Marseille, France

Workshop: Discrete Duality Finite Volume (DDFV) methods and Applications

10/2022 - 12/2022 — Marseille, France

Internship and Master Thesis on coupled Parabolic-ODE problems for patterns formation in Hydra with Anna Marciniak-Czochra

01/2023 - 07/2023 — Heidelberg, Germany

Spring school on Structured Population Models + Poster presentation

05/2023 — Varsaw, Poland