

# Samuel Tréton

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📄 Samuel-Treton

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*PhD Student in Applied Mathematics*

*2<sup>nd</sup> year*

## Short biography

2021 – **PhD Student**, University of Rouen Normandy  
*Mathematical models for fast diffusion channels in population dynamics and epidemiology*  
Advisor: Matthieu Alfaro

2015 – 2021 **Bachelor's and Master's degrees**, University of Rouen Normandy

## Publications

2023 M. ALFARO, R. DUCASSE, AND S. TRÉTON,  
**The field-road diffusion model: Fundamental solution and asymptotic behavior**,  
arXiv:2207.01859, published in *Journal of Differential Equations* (DOI:10.1016/j.jde.2023.05.002)

## Preprints

## Teaching

2022 – 2023 **Mathematical Tools (24h)**, *Bachelor's Degree in Chemistry, 1<sup>st</sup> year*, University of Rouen  
**GeoGebra Practical Work (13h)**, *Bachelor's Degree in Mathematics, 1<sup>st</sup> year*, University of Rouen  
**Statistical Modeling for Biology (27h)**, *Master's Degree in Biology, 1<sup>st</sup> year*, University of Rouen

2021 – 2022 **Analysis (37h)**, *Bachelor's Degree in Mathematics/Physics/Computer Science, 1<sup>st</sup> year*, University of Rouen  
**Statistical Modeling for Biology (27h)**, *Master's Degree in Biology, 1<sup>st</sup> year*, University of Rouen

## Conferences and workshops

2023 **Research school organized by Polytechnique, Aussois**  
**Normandy BioMaths Working Group, Le Havre**  
**PDE and Applications Day, Le Havre**  
**ReaDiNet 2023: International conference on parabolic and stochastic models in mathematical biology, online**

2022 **Normandy BioMaths Working Group, Le Havre and Rouen (presentation)**  
**PDE and Applications Day, Le Havre**  
**Parabolic and kinetic models in population dynamics, Toulouse**  
**CANUM 2022, Évian-les-Bains**  
**14th Normandy Mathematics Federation Day, Caen (poster)**  
**CIRM Research School, Marseille**  
**IHP Quarter – Mathematical models and organization of living matter, Paris**

2021 **CIRM 2396 – Nonlocal Models in Biology, Marseille**

**Normandy BioMaths Working Group**, *Online and in Rouen*

**PDE and Applications Day**, *Online*

**MBMC 2021: Mathematical Biology on the Mediterranean Coast**, *Online*

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## Collective Responsibilities

2023 – PhD student and ATER representative at the Mathematics Department Council of the University of Rouen

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## Other

**Programming and Software** Python – Matlab – Scilab – R – FreeFem – AutoHotKey – HTML – Inkscape – L<sup>A</sup>T<sub>E</sub>X

**English** Scientific

**Interests** Hiking (Albâtre Coast in 2018: 130 km) and cycling (crossing Normandy in 2019: 300 km)