Elias VENTRE

27/09/1990 06 rue Julien Duvivier 69003 LYON

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Curriculum Vitae



EDUCATION

Since 2019	 INRIA Dracula & LBMC – PhD in applied mathematics. Stochastic hybrid processes for modeling gene expression at the single-cell level.
2017-2019	UCBL Lyon 1 – Master in applied mathematics, with highest honor (2/39).
2013-2015	ENSA Paris-Belleville – Master in Architecture. • One-year exchange program in UC, Santiago de Chile (2014).
2010-2013	ESTP Paris - Master in Building Engineering.
2008-2010	Lycée Fénelon – Classes préparatoires aux grandes écoles.
2008	Lycée Louis Le Grand – High School Diploma, with honor.

TEACHING & PROFESSIONAL ACTIVITIES

Since 2019	UCBL, Teaching assistant.
	 In charge of the course of General Mathematics for 1st-year students.
2018-2019	LBMC, Internships in applied mathematics.
	 Mathematical formulation of Wadddington Landscape for a stochastic hybrid model of gene expression (4 months).
	 Computation of transfer entropy for a Piecewise Deterministic Markovian Process (1 month).
2015-2017	SYNTESIA, Project manager in Building Information Modeling – 22 months.
2013	ARTER, Engineering of ephemeral art – 6 months.

LANGUAGES

French English & Spanish Informatics	Mother tongue. Fluent. Python & C, Latex.	
PUBLICATIONS		
bioRxiv, 2022	Evidence for close molecular proximity between reverting and undifferentiated cells Souad Zreika, Camille Fourneaux, Elodie Vallin, Laurent Modolo, Rémi Seraphin, Alice Moussy, Elias Ventre, Matteo Bouvier, Anthony Ozier-Lafontaine, Arnaud Bonnaffoux, Franck Picard, Olivier Gandrillon, Sandrine Giraud	
In Cilian Biology 2021	Davage angineaving of a machanistic model of gane avenuession using	

Reverse engineering of a mechanistic model of gene expression using *In Silico Biology*, 2021 metastability and temporal dynamics

Elias Ventre

J. Math. Biol., 2021 Reduction of a stochastic model of gene expression: Lagrangian

dynamics gives access to basins of attractions as cell types and metsatability

Eias Ventre, Thibault Espinasse, Charles-Edouard Bréhier, Vincent Calvez, Thomas Lepoutre, Olivier Gandrillon.

TALKS & POSTERS

01/2022	Université de Lyon, MMCS group – Lyon.
12/2021	NETBIOS research group – virtual.
12/2021	MAMOVI research group – Paris.
06/2021	Université de Lorraine, Probability group – Nancy.
05/2021	SMAI, Congress – Poster.
12/2020	SinCellMod-2020 – Virtual.
10/2020	ANR SingleStatOmics – Virtual.
02/2020	CIRM, Research School – Poster.
10/2019	INRIA-Bio Workshop – Lyon.

PERSONAL

Violin and Guitar.

Acting in lay theatre.
Tennis in competition, hiking.