Elias VENTRE.

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Curriculum Vitae



EDUCATION

Since 2019	INRIA Dracula & LBMC – Ph.D in applied mathematics.
	 From molecular networks to cellular fate: multiscale analysis of gene expression.
2019	UCBL Lyon 1 – Master in applied mathematics, with highest honor (2/39).
2015	ENSA Paris-Belleville – Master in Architecture.
	 One-year exchange program in UC, Santiago de Chile.
2013	ESTP Paris - Master in Building Engineering.
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, spring semester.
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 months).
2015-2017	SYNTESIA, Project manager in Building Information Modeling – 22 months.
2013	ARTER, Engineering of ephemeral art – 6 months.

LANGUAGES

French	Mother tongue.
English & Spanish	Fluent.

Informatics Python & C, Latex.

PUBLICATIONS

Preprint	Ventre, E. (2021). Re	verse engineering	of a mechanistic	model of gene expression
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using metastability and temporal dynamics. bioRxiv.

https://doi.org/10.1101/2021.06.01.446414

Preprint Ventre, E., Espinasse, T., Bréhier, C. E., Calvez, V., Lepoutre, T., & Gandrillon, O.

(2020). Reduction of a stochastic model of gene expression: Lagrangian dynamics

gives acces to basins of attraction as cell types and metastability. bioRxiv.

https://doi.org/10.1101/2020.09.04.283176

TALKS & POSTERS

06/2021	University of Lorraine, Probabilistic group – Nancy.
05/2021	SMAI, Congress – Poster.
12/2020	SinCellMod-2020 – Virtual.
10/2020	ANR SingleStatOmics – Virtual. https://anr-singlestatomics.pages.math.cnrs.fr
02/2020	CIRM, Research School – Poster.
10/2019	INRIA-Bio Workshop – Lyon.

PERSONNAL Violin and Guitar. Acting in lay theatre. Hiking, Tennis in competition.