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PhD in mathematics Specialisation: Statistics Date of birth: 09 December 1992 Nationality: French △ Lyon, France and Riyadh, Saudi Arabia Ø 0033 6.73.43.44.75 Ø 00966 54.120.8925 ⊠ maryam.alamil@hotmail.com malamil@alfaisal.edu



Formations

2017-2020	Aix Marseille UniversityAvignon France• PhD in mathematics• • • • • • • • • • • • • • • • • • •
	 Specialisation: bio-statistics; Title: Reconstruction of the transmission of a virus during an epidemic by statistical learning on genomic data. Tasks: Develop (through R) a statistical learning approach to estimate epidemiological links from deep sequencing data; Perform a formal sensitivity analysis to evaluate the performance of the developed approach in reconstructing disease outbreaks.
	• Lecturer qualification 2021.
2016-2017	Claude Bernard UniversityLyon, France,Master 2 Applied mathematics,Specialisation: Statistics, Computer Science and Digital Techniques
2015-2016	Claude Bernard UniversityLyon, France,Master 1 General Mathematics and Applications
2014-2015	Lumière UniversityLyon, France,Master 1 Law, Economics and Management,Specialisation: Finance
2013-2014	Lebanese University - Science Faculty - Section 2Fanar, Lebanon,Bachelor in Mathematics
	Professional experiences & training
July 2024 - Present	Alfaisal University,Riyadh, Saudi Arabia,Senior lecturer in Mathematics and statistics,
September 2022 - June 2024	Alfaisal University,Riyadh, Saudi ArabiaAdjunct professor in Mathematics and statistics• Teaching statistics and calculus courses• Reviewing Master thesis in Biostatistics and participating in the thesis defense committee• Providing guidance and support in student research projects• Participating in organising R programming Workshop
September 2021	ESSCA School of management, Mathematics lecturerLyon, France,
September 2020 – August 2021	Avignon University,Avignon, FranceAvignon Mathematics Laboratory ,Teacher and researcher• Teaching statistics, probability, calculus and algebra courses• Research collaboration with INRAE
October 2017 – September 2020	INRAE: Research Institute for Agriculture, Food and the EnvironmentAvignon, FranceBioSP Unit (Bio-statistics and Spatial Processes),PhD student,Guiding students during their internships

2019-2020	Avignon University University Institute of Technology, Department: Statistics and Business Intelligence Adjunct professor in statistics Teaching courses in statistics, probability and simulations (R programming)	Avignon, France
2018-2019	Avignon University University Institute of Technology, Departments: Statistics and Business Intelligence & Biological engineering Adjunct professor in Mathematics and statistics	Avignon, France
2017-2018	Avignon University Science, Technology and Health Training and Research Unit & University Institute of Technology (IUT), Departments: Life and earth sciences & Biological engineering Adjunct professor in mathematics and statistics	Avignon, France
May - September 2017	INRAE: Research Institute for Agriculture, Food and the Environme BioSP Unit (Bio-statistics and Spatial Processes), Master 2 Research Internship, Internship topic: Modeling of viral kinetics and intra-host evolution	nt Avignon, France
February - June 2016	Claude Bernard University Master 1 Research Internship, Internship topic: Mathematical modeling of the appearance of patterns on anim	<i>Lyon, France</i> , and coats
May 2016	Lumière high school Observation and teaching internship	Lyon, France,
August 2015	Bank of BeirutObservation internship & teller	Chehabiyeh, Lebanon,
2010-2017	Private lessons Mathematics, Physics, Biology and Chemistry (in French & English)	Lebanon & France,

Publications

Al Hajj F. & Alamil M. Novel methods for enhancing Financial market competitiveness: Case studies from a GCC perspective. *In progress*.

Alamil M., Bruchou C., Ribaud M., Thébaud G., & Soubeyrand S.

Factors influencing the inference of transmission events in disease outbreaks. In progress.

Tatar S., BenSalah M., & Alamil M.

Simultaneous Identification of the parameters in the Mathematical model of brain tumor growth dynamics under treatment. Accepted in European Journal of Pure and Applied Mathematics.

Alamil M., Berthier K., Thébaud G., & Soubeyrand S.(2022)

Characterizing viral within-host diversity in fast and non-equilibrium demo-genetic dynamics. *Frontiers in Microbiology* 13.

Almasri H., Tavares D., Diogon. M, Pioz M., Alamil M., Sené D., Tchamitchian S., Cousin M., Brunet J., Belzuncesa L. (2021).

Physiological effects of the interaction between Nosema ceranae and sequential and overlapping exposure to glyphosate and difenoconazole in the honey bee Apis mellifera. *Ecotoxicology and Environmental Safety, 217, 112258.*

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

Inferring epidemiological links from deep sequencing data: a statistical learning approach for human, animal and plant diseases. *Philosophical Transactions of the Royal Society B*, 374(1775), 20180258.

Oral Communications

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

Inferring epidemiological links from deep sequencing data using a statistical learning approach. European Meeting of Statisticians, Palermo, Italie, 22-29/07/2019.

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

SLAFEEL: Statistical Learning Approach to Estimate Epidemiological Links of infectious diseases from deep sequencing data.

Mathematical and Computational Evolutionary Biology meetings, Porquerolles, France, 26-30/05/2019.

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

Developing a statistical learning approach to estimate transmissions of infectious diseases from deep sequencing data. Annual meeting of the GdR Ecostat, Avignon, France, 13-14/05/2019.

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

Statistical methods for inferring transmissions of infectious diseases from deep sequencing data. *Meeting of young statisticians, Porquerolles, France, 01-05/04/2019.*

Alamil M., Hughes J., Berthier K., Desbiez C., Thébaud G., & Soubeyrand S. (2019).

A statistical learning approach to infer transmissions of infectious diseases from deep sequencing data. Annual meeting of ModStatSAP network, Paris, France, 12/03/2019.

Posters

Alamil M., Bruchou C., Ribaud M., Thébaud G. & Soubeyrand S.(2020).

A study of factors influencing the performance of the reconstruction of transmissions in disease outbreaks. A workshop on "Mathematical modelling and statistical analysis of infectious disease outbreaks: heterogeneity in space, time and social structure, and virus evolution", CIRM, Marseille, France, 17-21/02/2020.

Alamil M., Berthier K., Thébaud G. & Soubeyrand S.(2019).

A statistical learning approach to infer transmissions of infectious diseases from deep sequencing data. Annual workshop on Statistical Methods for Post Genomic Data, Barcelone, Espagne, 30/01-01/02/2019.

Alamil M., Berthier K., Thébaud G. & Soubeyrand S.(2018).

Models for demo-genetic viral dynamics that will be used for inferring transmission links. 3rd edition of Mathematical Biology Modelling days, Besançon, France, 19-22/06/2018.

Computer skills

Office Word, Excel, PowerPoint, Access automation Software Maple, SAS, R, Python, Julia Languages C, Latex.

Languages

Arabic Mother tongue French Certificate Delf B2 English Good Written, read, spoken Written, read, spoken Written, read, spoken

References are available upon request