

Alexandros Singh

Curriculum Vitæ

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Born 14/09/1994
Citizenship: Greek



Employment

Université Sorbonne Paris Nord
Teaching assistant (as PhD student)

France
2021–now

Education

Université Sorbonne Paris Nord
PhD student in Informatics

France
Oct. 2019–now

Thesis Project: Combinatorics of maps and λ -terms.

National and Kapodistrian University of Athens, National Technical University of Athens

Greece

Master of Science in Algorithms, Logic, and Discrete Mathematics

2017–2018

Thesis Project: Enumeration of Cactus Minor-Obstructions for k -Apex Sub-unicyclic Graphs.

Ionian University

Greece

Bachelor of Science in Informatics (ranked 1st in class)

2013–2017

Thesis Project: Design and Implementation of Qumin, a Quantum Programming Language.

Professional and academic experience

Member of the **LambdaComb project** (ANR PRC grant)

2021–now

Member of the organising committee for the **15th workshop Computational Logic and Applications CLA'20**

2020

Co-organiser of the graduate student seminar
LIPN, Université Sorbonne Paris Nord

2019–now

Intern

2018–2019

IRIF, Université de Paris

Project on quantum machine learning

Intern

2015–2016

Ionian University

Project on quantum programming

Teaching and mentorship

Programmation fonctionnelle (Licence 2 Informatique)
Université Sorbonne Paris Nord

2022

TP, 15 hours.

Informatique 4 : Algorithmique
Université Sorbonne Paris Nord

2022

TP, 12 hours.

Architecture et système (Licence 2 Informatique) <i>Université Sorbonne Paris Nord</i> TP and TD, 28.5 hours.	2021–2022
Spécifications algébriques et test logiciel (Licence 2 Informatique) <i>Université Sorbonne Paris Nord</i> TD, 18 hours.	2021–2022
Computer Programming <i>Ionian University</i> Taught programming (in C++), oversaw students and graded exercises.	2015–2016
Intro To Quantum Programming (Workshop) <i>Ionian University</i> Hosted the first student’s workshop on quantum computation and programming in the Ionian University.	2016
Theory of Computation <i>Ionian University</i> Mentor of student projects.	2016
Quantum Computation <i>Ionian University</i> Mentor of student projects.	2016

Selected Talks

Combinatorics and Arithmetic for Physics: special days <i>Institut des Hautes Études Scientifiques (IHÉS)</i> Asymptotic Distribution of Parameters in Trivalent Maps and Linear Lambda Terms.	2021
ALGCo Seminar <i>LIRMM, Université Montpellier</i> Asymptotic Distribution of Parameters in Trivalent Maps and Linear Lambda Terms.	2021

Selected publications

Journal articles:

1. A. Leivaditis, A. Singh, G. Stamoulis, D. M. Thilikos, K. Tsatsanis, and V. Velona, *Minor-obstructions for apex sub-unicyclic graphs*. **Discrete Applied Mathematics**, 2020.
2. A. Leivaditis, A. Singh, G. Stamoulis, D. M. Thilikos, and K. Tsatsanis, *Minor obstructions for apex-pseudoforests*. **Discrete Mathematics**, 2021.

Conference proceedings:

3. O. Bodini, A. Genitrini, M. Naima, and A. Singh, *Families of monotonic trees: Combinatorial enumeration and asymptotics*. **Computer Science – Theory and Applications**, 2020.
4. A. Leivaditis, A. Singh, G. Stamoulis, D. M. Thilikos, K. Tsatsanis, and V. Velona, *Minor-obstructions for apex sub-unicyclic graphs*. **EuroComb 2019, Acta Mathematica Universitatis Comenianae**, 2019.

Preprints:

5. O. Bodini, A. Singh, and N. Zeilberger, *Asymptotic distribution of parameters in trivalent maps and linear lambda terms*. **arXiv**, 2021.