

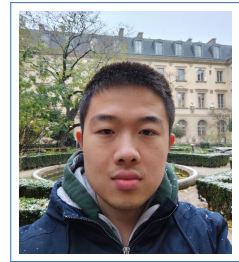
# Victor Deng

✉ [firstname.lastname@ens.psl.eu](mailto:firstname.lastname@ens.psl.eu)

🌐 <https://www.victor-deng.fr>

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## Education

- 2024–2025 **Master of Science in computer science – MPRI (second year)**, *École normale supérieure – PSL*, Paris
- 2023–2024 **Master of Science in mathematics – MVA**, *École normale supérieure Paris-Saclay*, Gif-sur-Yvette (Plateau de Saclay, Paris region), Mention très bien (first class honours)
- 2021–2022 **Master of Science in computer science – MPRI (first year)**, *École normale supérieure – PSL*, Paris, Mention très bien (first class honours)
- 2020–2021 **Licence (bachelor's degree) in mathematics**, *École normale supérieure – PSL*, Paris, Mention très bien (first class honours)
- 2020–2021 **Licence (bachelor's degree) in computer science**, *École normale supérieure – PSL*, Paris, Mention très bien (first class honours)
- 2018–2020 **Classes préparatoires: MPSI and MP\***, *Lycée Louis le Grand*, Paris  
Intensive classes that prepare students for the French *grandes écoles*' competitive admission exams
- 2018 **Baccalauréat S (french high-school degree)**, Mention très bien (first class honours)

## Research experience

- March – August 2025 **Research internship**, supervised by *Clément Pit-Claudel*, *SYSTEMF lab*, **EPFL**, Lausanne, Switzerland  
An inductive semantics for JavaScript regexes, and its applications
- April – September 2024 **Research internship**, supervised by *Gaël Richard*, *ADASP group*, *LTCl*, **Télécom Paris**, Palaiseau (Paris region), France  
Bias Correction with Pre-trained Audio Embeddings  
Paper published: Deng et al., "Investigating the Sensitivity of Pre-trained Audio Embeddings to Common Effects", at ICASSP 2025.
- November 2022 – July 2023 **Research internship**, supervised by *Marc Pouzet*, *PARKAS project-team*, **INRIA Paris**, Paris, France  
A constructive semantics in Coq for the Zélus language
- March – July 2022 **Visiting research student**, supervised by *Antonio Barbalace*, *Institute for Computing Systems Architecture*, **The University of Edinburgh**, Edinburgh, United Kingdom  
Shared page cache for multiple-kernel operating systems
- June – July 2021 **Research internship**, supervised by *Giuseppe Di Molfetta*, *CaNa team*, *Laboratoire d'Informatique et Systèmes*, **Aix-Marseille Université**, Marseille, France  
Quantum Walking over a discrete sphere  
Paper published: Di Molfetta and Deng, "Geodesic quantum walks", published in Physical Review A.

## Contest participation

- 2023 **ICPC World Finals contestant**, Sharm-el-Sheikh, Egypt  
World finals of the ICPC programming contests ; SWERC is a regional ICPC contest
- 2020-2021, **SWERC contestant**
- 2021-2022, Programming contest for college students in southwestern Europe
- 2022-2023,
- 2024-2025
- 2018 **International Olympiad in Informatics – IOI**, Tsukuba, Japan, Bronze medal
- 2017 **Animath mathematics training camp**, Centre international de Valbonne
- 2015–2017 **Algoréa programming contest**, 2015–2017 finalist, 2016 winner
- 2017–2021 **Prologin programming contest**, 2017–2020 finalist

## Skills

Programming C++, Java, Python, OCaml  
 Software LaTeX, Git  
 Proof Coq  
 assistants

## Languages

French Mother tongue  
 English C1-C2 level *Cambridge English C1 Advanced test (formerly Cambridge Advanced English, CAE) taken in 2022, English scale score: 202*  
 Chinese Regularly spoken  
 Spanish B1-B2 level  
 Italian B1 level

## Publications

- Deng, Victor et al. "Investigating the Sensitivity of Pre-trained Audio Embeddings to Common Effects". In: *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*. Hyderabad, India, Apr. 2025. URL: <https://hal.science/hal-04904470>.
- Di Molfetta, Giuseppe and Victor Deng. "Geodesic quantum walks". In: *Phys. Rev. A* 105 (6 June 2022), p. 062420. DOI: 10.1103/PhysRevA.105.062420. URL: <https://link.aps.org/doi/10.1103/PhysRevA.105.062420>.

## Miscellaneous

- Since 2018 **France-IOI coach**  
Training in algorithmics for middle and high school students during training camps organised by the association France-IOI
- For around 7 years Piano