# Curriculum Vitae – Fall 2021

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| Family name | Pesenti |
| Given name | Lucas |
| Date of birth | 30/03/1997 |
| Citizenship | French |
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## Qualifications

**2021 – current**    Ph.D. student in Statistics and Computer Science, Bocconi University, Milan.

**2017 – 2021**    Master's degree in Computer Science, *Master Parisien de Recherche en Informatique* (MPRI), École Normale Supérieure de Paris (ENS Ulm) and Paris Diderot University. Obtained with the highest honors, rank 1/65

**2016 – 2017**    Bachelor's degree in Computer Science, ENS Ulm.

## Awards and Scholarships

**2016 – 2021**    *Élève normalien* (student and civil servant), ENS Ulm.
**2016**    Admitted to ENS Ulm, Computer Science, rank 1.
**2014**    International Olympiad in Informatics (IOI), Bronze Medal.
**2013 – 2014**    National selections for the IOI, rank 1.

## Research Interests

I am broadly interested in theoretical computer science, with a preference for approximation algorithms, average-case analysis, and the role of randomness in computation. My current research projects consist in leveraging techniques from online optimization to tackle discrepancy and sparsification problems.

## Research Experiences

**Feb. – Jul. 2021**    Research Internship, Paris Diderot University, France.
*Improved algorithms for combinatorial discrepancy,* advised by Adrian Vladu.

**Sep. – Dec. 2020**    Research Internship, Bocconi University, Italy.
*Refutation of random constraint satisfaction problems*, advised by Luca Trevisan.

**Feb. – Jun. 2018**    Research Internship, Eindhoven University of Technology, Netherlands.
*The $2^{n/2}$ time barrier for the subset sum problem,* advised by Nikhil Bansal.

**Jun. – Jul. 2017**    Research Internship, University of Louvain, Belgium.
*Experimental linear cryptanalysis of DES*, advised by François-Xavier Standaert.

## Language  Skills

- French: native
- English: C1/C2 (TOEFL 117/120)
- German: C1
- Russian, Italian: A1/A2

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