

# Luca ACCORSI

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Cento, Ferrara, Italy | 16 October 1993  
PHONE: +39 349 8871931  
WEBSITE: [lucaaccorsi.it](http://lucaaccorsi.it)  
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## EDUCATION

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*Current* **PhD student** in OPERATIONS RESEARCH, **Università di Bologna**, Bologna  
NOVEMBER 2018 Research area: Combinatorial Optimization and Machine Learning  
Supervisor: prof. Daniele Vigo  
Co-supervisors: prof. Michela Milano, prof. Aristide Mingozzi

OCTOBER 2017 **Master degree** in COMPUTER SCIENCE, **Università di Bologna**, Cesena  
110/110 *with honors* | Subject: Combinatorial optimization  
Thesis: “Valid lower bounds to the Single Truck and Trailer Routing Problem” | Advisor: Prof. Aristide MINGOZZI | Co-advisor: Prof. Daniele VIGO

OCTOBER 2015 **Bachelor Degree** in COMPUTER SCIENCE **Università di Bologna**, Cesena  
110/110 *with honors* | Subject: Operations research  
Thesis: “L’algoritmo bionomico per il TSP” | Advisor: Aristide MINGOZZI

JULY 2012 **High school diploma** in Computer Science | **ITIS “N. Copernico”**, Ferrara  
Final Grade: 100/100

## WORK EXPERIENCE

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OCTOBER 2018 | Research fellow (assegnista di ricerca) at UNIVERSITÀ DI BOLOGNA  
DECEMBER 2017 | *Acceleration Techniques for Heuristic Algorithms for Vehicle Routing*  
The project is aimed at developing effective acceleration techniques to be applied to heuristics for the solution of vehicle routing problems. (USAF grant)

JANUARY 2016 | Startup “Taskabile” at LUGO NEXT LAB, Lugo  
JANUARY 2015 | *A marketplace for the meeting of demand and supply for small tasks*  
Co-founder, database designer, front-end and back end designer and programmer. Emilia-Romagna Start Cup 2015 award: [Taskabile](#)

SUMMER 2011 | Ufficio di reti e sistemi at UNIVERSITÀ DI FERRARA, Ferrara  
Computer maintenance and front-end web programmer.

## TEACHING EXPERIENCE

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JUNE 2019 | Teaching assistant at UNIVERSITÀ DI BOLOGNA, Bologna  
FEBRUARY 2019 | *Advanced Prescriptive Analytics*  
Main activities: application of machine learning algorithms using Weka and Python during lab sessions

JUNE 2019 | Technical teacher  
APRIL 2019 | *Emilia-Romagna financed project on Big Data*  
Main topics: introduction to operations research and computational complexity, decision tree, linear and logistic regression, SVM. Places: FAV (Bologna), Assoform (Rimini), Sestante Romagna (Ravenna), Nuova Didactica (Ferrara)

## LANGUAGES

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ITALIAN: Mothertongue  
ENGLISH: Listening: C1, Reading: C1, Writing: B2, Speaking: B2  
(*IELTS Academic certificate 16/07/2015*)

## PUBLICATIONS

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1. Luca Accorsi, Daniele Vigo, A Hybrid Metaheuristic for Single Truck and Trailer Routing Problems, submitted to Transportation Science, January 2019.

## CONFERENCES

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1. Luca Accorsi, Daniele Vigo, A Fast Metaheuristic Algorithm for the General Single Truck and Trailer Routing Problem, Conference paper presented at ODS 2018, Taormina, 2018.
2. Luca Accorsi, Wout Dullaert, Birger Raa, Daniele Vigo, A Static Move Descriptor-based Heuristic for the Vehicle Routing Problem, Conference paper presented at EURO 2018, Valencia, Spain, 2018

## SCHOLARSHIPS

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2018 Best graduate in UNIBO (Romagna) among engineering students (Rotary award)  
JULY 2017 UNIBO scholarship for engineering students with the highest grades (n.5)

## COMPUTER SCIENCE SKILLS

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- Knowledge of object oriented, functional, and procedural programming paradigms and several associated languages: C++, Java, Python, JSP, PHP (Laravel framework), Javascript, Haskell, C, ...
- Software engineering analysis and design skills: I love code that both works great and looks beautiful.
- Data warehousing and data mining notions.
- Database design and stored procedure (Oracle PL/SQL) knowledge.
- Internet network mechanisms (application and transfer layers) and OS operation.
- High performance computing (OpenMP and MPI).

## INTERESTS AND ACTIVITIES

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During my rare spare time I like reading (mainly sci-fi and surreal books), running and swimming, cooking vegetarian dishes and listening to (classical and rock) music and sometimes *trying* to play it with guitar and bass. I'm also interested in the GNU/Linux world and in the Open-Source and Free-Software philosophy.