

# Tommaso Scarlatti

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## EDUCATION

### **HARVARD UNIVERSITY**

Visiting Researcher  
*Master's Thesis in Data Science*

**Cambridge, MA**  
10/2019 - Present

### **POLITECNICO DI MILANO**

MSc Computer Science and Engineering  
GPA: 28.60/30.00

**Milan, Italy**  
09/2017 - Present

### **UNIVERSITY OF FLORENCE**

BSc Computer Science and Engineering  
Final grade: 107/110

**Florence, Italy**  
09/2014 - 09/2017

## ACHIEVEMENTS

### **2nd Place ACM RecSys Challenge 2018 by Spotify**

**Vancouver, BC**  
10/2018

- Ranked 2nd in the Creative Track as the official team of Politecnico di Milano among 100+ teams.
- Developed a model for music recommendation in a playlist continuation scenario.
- Presented results at the workshop of the conference

## PUBLICATIONS

*Artist-driven layering and user's behavior impact on recommendations in a playlist continuation scenario*  
*Proceedings of the ACM Recommender Systems Challenge 2018, p.1-6, October 02-07, 2018, Vancouver, BC, Canada*

## WORK EXPERIENCE

### **Tenbuilders**

Web developer

**Florence, Italy**  
09/2015 - 09/2017

- Founded and developed a platform (frontend and backend) to help students to find selected tutors
- Wrote and implemented scripts to enhance user experience and managed MySQL database

## PROJECTS AND RESEARCH EXPERIENCE

### **Datashack (Python): Multidisciplinary Project**

- Selected for Datashack 2019: a Harvard University - Politecnico di Milano joint program on Data Science
- Improved departures estimation accuracy for Alpitour Travel Group using time series forecasting models
- Collaborated with designers to integrate the software pipeline with a web interface

### **Oris-tool (Java): BSc Thesis**

- Analysis and development of a software component for interactive visualization of stochastic Petri nets
- Developed an API to be integrated inside Oris tool and a GUI using Java Swing

### **Travlendar (Swift, Laravel): College Project**

- Designed and developed the front-end of the iOS native application
- Integrated Google Maps API and Uber API to retrieve information concerning available travel options

### **Distributed Engine (Java): College Project**

- Built a Big Data (batch and stream) processing engine using Akka toolkit
- Implemented a REST API to connect with the system, submit new jobs, and monitor the state of the platform

### **Home Hub (Python): Personal Project**

- Set up a web server on a Raspberry Pi using Django and styled the website using Bootstrap
- Developed a REST API to connect the hub with external services and devices

## SKILLS

**Language:** Italian (Native), English (C1 level), French (A1 level)

**Programming:** Python, Java, C, SQL, Bash, Latex, HTML, CSS, Recommender Systems, Machine Learning