

# Raffaele Rainone

## Curriculum Vitae

Amsterdam, Netherlands

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in Raffaele Rainone

### PROFESSIONAL CAREER

- May 2017 – now    Data Scientist, **Booking.com**, Amsterdam, Netherlands.
- Customer Lifetime Value, Customers Segmentation; Causal inference: A/B experiments, quasi-experiments. Collaboration with:
    - Marketing: insights on budget allocation, campaigns personalisation
    - Product: loyalty program
    - Experimentation: long term effect of experimentation
  - Trainings: PySpark (trainer), Data Visualization with Python (creator and trainer)
  - Mentor
- Jan 2016 – May 2017    Data Scientist, **Flight Data Services Ltd.**, Whiteley, UK.
- Multivariate time-series analysis
  - Developed ETL (Python, Dask, Django, SQL) to automate and scale up previous system
  - ML models: anomaly detection, flight key-point detection
  - PyData London speaker: *Python flying at 40,000 feet*
- Jan 2015 – Nov 2015    Developer, **Path Intelligence Ltd.**, Portsmouth, UK.
- RF/DSP Developer (Python, C++, SQL)
  - Iterated and improved WiFi localisation algorithm (Bayesian linear regression, PyMC)
  - Designed and developed testing rig for WiFi scan units

### SKILLS

Statistical analysis; Experimentation (A/B tests, quasi-experiment); Storytelling with data

**Languages:** *Python*, SQL/Hive, Bash

**Data munging/ML libraries:** PySpark, H2O, Tensorflow

### ACADEMIC CAREER

- Oct. 2010 -    **Ph.D. Mathematics**, *EPSRC Doctoral Training Award*, University of Southampton, UK.  
Mar. 2014    THESIS: “Geometric actions of classical algebraic groups”, supervisor: Dr. T. C. Burness.
- Sep. 2009 -    **2nd year M.Math. International Master ALGANT (European grant)**, *Mathematisch Instituut*, Universiteit Leiden, Netherlands.  
Jul. 2010    THESIS: “On the inverse problem for deformation rings of representations”, supervisor: Prof. B. De Smit.
- Oct. 2008 -    **1st year M.Math. International Master ALGANT**, *Dipartimento di Matematica Pura e Applicata*, Università di Padova, Italy.  
Jul. 2009
- Oct. 2004 -    **B.MathSc., grade 110/110 cum laude**, *Dipartimento di Matematica e Applicazioni*, Università di Napoli “Federico II”, Italy.  
Mar. 2008

### AWARDS AND OTHER ACTIVITIES

- Mathematics    During the secondary school (2001–04), I took part to the “*Campionati internazionali di giochi matematici*”. I reached the **National Final** in the years 2003 and 2004.
- Awards and scholarship    **Academic prize** for high grades average 2005 and 2006. **Erasmus Mundus (ALGANT) scholarship** 2009. **EPSRC Doctoral Training Award** 2010/13.
- Music    I studied and I can play (with a range of skills) violin, guitar and ukulele.

Updated September 1, 2019