

# Simone Maria Giancola

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## EDUCATION

### Bocconi University

Milan, ITA

*MS Data Science*

*August 2021 – July 2023*

- Modules include: Advanced Machine Learning, Optimization, Stochastic Processes

### Arizona State University

Phoenix, USA

*Undergraduate Exchange Program*

*January 2021 - May 2021*

- GPA 4.17 / 4.00, 4 classes
- Graduate level modules: Quantum Computation, Modeling with Game Theory

### Bocconi University

Milan, ITA

*BS Economics, Management and Computer Science*

*August 2018 - July 2021*

- Grade 110 Cum Laude / 110, final GPA 29.18 / 30
- Thesis: “Value of Information in a Support Vector Machine, an exploration”
- Modules include: Advanced Statistical Methods, Applied Mathematics, Machine Learning

## EXPERIENCE

### Data Science Intern

January 2022 - March 2022

*Santagostino Clinic*

*Milan, ITA*

- Automated monthly report
- Identified customers' origin among services offered

### Research Assistant

January 2021 - May 2021

*Bocconi University, advisor: Professor Borgonovo E.*

*Milan, ITA*

- Conducted research on extraction of a Value of Information measure from a SVM algorithm
- Experienced: programming, academic research, paper reading, thesis writing (on personal webpage)

### Technology Analyst

July 2020 - August 2020

*Barclays Bank PLC*

*Radbroke, UK*

- Assigned to Application Performance Monitoring team, delivered documentation on main tools.
- Raised > 1000 GBP in an internal charity fundraising for the NHS

## MACHINE LEARNING PROJECTS

### Bayesian MCMC probit analysis | co-authored

December 2021

- Composed document with Theory and implementation
- Coded Gibbs Instrumental and Metropolis Random Walk Algorithms

### Heartbeat Classification and Disease Detection

September 2020

- Classified patients using a Random Forest after analysis and exploration
- Identified condition with 90% accuracy from a single heartbeat

### COVID-19 Analysis | co-authored

April 2020

- Visualization and prediction with Italian data
- Estimated low boundary time to extinction of the pandemic with curve fitting

## TALKS

### Advanced Session, Harvard mini-course on Computation

January 2021

- Presented Simulated Annealing with a TSP application
- Produced notes and slides on Statistical Mechanics exploitation and transition properties

## TECHNICAL SKILLS

**Advanced** Python, Latex, Sklearn, Numpy, Matplotlib, Scipy;

**Certifications** Deep Learning and AI for Medicine by DeepLearning.AI;

**Intermediate** Keras, Tensorflow, Git, Unix, R, SQL, Matlab, C++

## LANGUAGES

English (Advanced) IELTS 8.0

Italian (mothertongue); Spanish (Basic)

## PROFILE & INTERESTS

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Passionate about applying Machine Learning to create real world solutions. Result driven , detail oriented, and able to apply theoretical knowledge to solve real world problems. Fast learner, moved by curiosity. Good team player, whilst able to work independently and take up responsibility. In my spare time I enjoy playing Rugby - which I practiced at a regional competitive level for four years.