# FACTS

**Personal**

- Sebastian Raimondo
- Nationality: Italian
- 06-March-1992
- Santa Maria Maggiore (VB), Italy

**Areas of specialization**

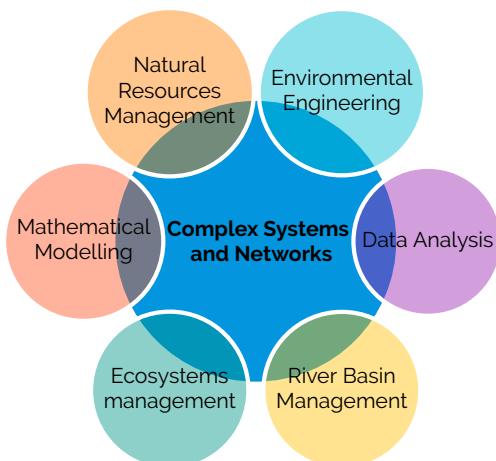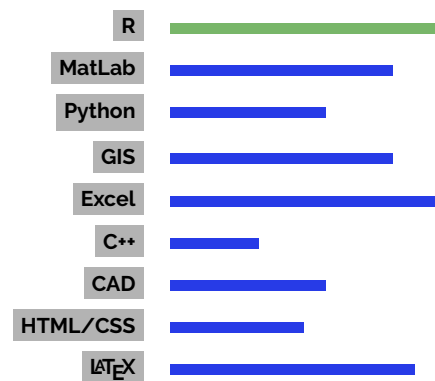Complex Systems and Networks · Natural Resources Planning and Management · Data Analysis

# SKILLS

**Languages**

| | | |
|---|---|---|
| **Italian** | mother tongue | ● ● ● ● ● |
| **English** | proficient | ● ● ● ● ○ |

**Interests**



**IT and Programming Skills**

- R
- MatLab
- Python
- GIS
- Excel
- C++
- CAD
- HTML/CSS
- LaTeX

OS:

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**Dott. Ing.**

# SEBASTIAN RAIMONDO

**Ph.D.**

## Resumé

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|---|---|---|
| 2018–2022 | **Ph.D. Degree**<br>MATHEMATICS<br>University of Trento and Fondazione Bruno Kessler · Trento, Italy 📍<br>*Cum Laude* | |
| 2016–2018 | **M.Sc. Degree**<br>ENVIRONMENTAL AND LANDPLANNING ENGINEERING<br>Politecnico di Milano · Milano, Italy 📍<br>*Mark: 110/110* | |
| 2018 | **Visiting Student**<br>MASTER THESIS<br>Tufts University · Boston, USA 📍 | |
| 2012–2016 | **B.Sc. Degree**<br>INGEGNERIA PER L'AMBIENTE E IL TERRITORIO<br>Politecnico di Milano · Milano, Italy 📍 | |

## Publications

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|---|---|
| **2022** | *Features-Enriched Radiation Model*, [paper], S. Raimondo, M. De Domenico, *to be submitted*. |
| **Aug 2022** | *Multilayer Network Science.*, [book], O. Artime, B. Benigni, G. Bertagnolli, V. d'Andrea, R. Gallotti, A. Ghavasieh, S. Raimondo and M. De Domenico, *Cambridge University Press*. |
| **Feb 2022** | *COVID-19 lockdown unravels the complex interplay between environmental conditions and human activity*, [paper], S. Raimondo, B. Benigni, M. De Domenico, *Complexity*. |
| **Jan 2021** | *Measuring topological features of complex networks under uncertainty*, [paper], S. Raimondo, M. De Domenico, *Physical Review E* 103 (2), 022311. |

## Conference Talks

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|---|---|
| **Oct 2021** | *Generalizing the Radiation Model with Exogenous Drivers*, at **Conference on Complex Systems** in Lyon, by Complex Systems Society. |
| **Jul 2021** | *Measuring network features under uncertainty*, at **Networks 2021** by International Network for Social Network Analysis (Sunbelt), and the Network Science Society (NetSci). |
| **May 2021** | *Measuring network features under uncertainty*, at **CompleNet 2021**, 12th International Conference on Complex Networks. |
| **Dec 2020** | *Environmental conditions and human activity nexus: the case of Northern Italy during COVID-19 lockdown*, at **Conference on Complex Systems** in Thessaloniki, by Complex Systems Society. |
| **Dec 2020** | *Measuring network features under uncertainty*, at **Conference on Complex Systems** in Thessaloniki, by Complex Systems Society. |
| **Nov 2020** | *Environmental conditions and human activity nexus: the case of Northern Italy during COVID-19 lockdown*, at: **VI COVID-19 Response Webinar** [invited]. |
| **Sep 2020** | *Measuring network features under uncertainty*, at **NetSci2020** in Rome, by Network Science Society. |
| **Jul 2019** | *Measuring network features under uncertainty*, at **Conference on Complex Systems, Italian Chapter** in Trento, by Complex Systems Society. |

## Other academic experiences

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|---|---|
| **2019-2021** | Teaching assistant for the course *Network Science: Theory and Lab* at the University of Trento (prof. Manlio De Domenico) |
| **2021** | Organization of a satellite conference at the international Conference on Complex Systems (CCS2021), Lyon, 2021. |
| **2022** | Organization of a 2-weeks laboratory on complex systems science at Bergamo Scienza 2022. |

# STRENGTHS

system thinking   multidisciplinarity
fast learning   teaching skills
public speaking   academic writing
problem solving   attention to details
autonomous organization   creativity
story-telling   empathetic

**Other Personal Interests**



Piano   Exploring   Climbing   Parkour

Ecology   Philosophy   Sailing

## Awards & Grants

**2019** Best Ph.D. Talk Award, at the Mediterranean School of Complex Networks, Salina, Italy.

**2018** Doctoral Scholarship from University of Trento and Fondazione Bruno Kessler

## References

prof. Manlio De Domenico, University of Padua

prof. Andrea Castelletti, Politecnico di Milano

prof. Jonathan Lamontagne, Tufts University

## Attended courses

**Ph.D. Courses** Network Science, Bayesian Statistics, Scientific Computing, Foundation of Data Analysis, Academic Writing, Research to Business: technology transfer.

**M.Sc. Courses** Natural Resources Management, Advanced Environmental System Analysis, Ecosystem Conservation and Management, Complex System Dynamic, System Theory (Non-Linear Dynamic), Complexity in Systems and Networks, Mathematical Physics, Statistical Models and Stochastic Processes, Soil Uses and Environmental Effects, Remote Sensing, Structural Mechanics and Design, River Engineering and Basin Reclamation, Noise and Electromagnetic Pollution, Urban Renewal and Planning.

**B.Sc. Courses** Environmental System Analysis and Management, Land planning, Ecology, Mathematical Modelling and Simulation, Applied Geology, Hydraulics, Geotechnical Engineering, Ecology and Sustainability of Production Systems, Economics.

## Schools and Workshops

**2021** CoMuNe Lab - *Complexity Webinars* - FBK CoMuNe Lab, Online

**2020** ICTP - *Winter School on Quantitative Systems Biology: Quantitative Approaches in Ecosystem Ecology* - International Center for Theoretical Physics, Online.

**2020** UNITN - *Training course on the communication of scientific research* - University of Trento, Trento, Italy

**2019** CSH - *Higher-Order Connectivity and Correlations in Complex Systems* - Complexity Science Hub, Vienna, Austria

**2019** MSCx - *Mediterranean School of Complex Networks*, Isola di Salina, Italy

## Experiences abroad

Most of my master thesis work was conducted at Tufts University in Boston (USA).
I participated to various international conferences and workshop.
I also visited many countries in Europe for study or recreational purposes (England, Scotland, France, Switzerland, Spain, Germany, Holland...).

## Artistic Skills

I have played the piano since the age of six. I used to play church organ and electronic keyboards. I also play ethnic musical instruments, such as australian didgeridoo and african djembé. I attended capoeira classes by the Sao Salomao school. I have experiences as gymnastics and parkour coach.

## Other Skills and Competences

I attended a course for Glaciological Operators, with the "Servizio Glaciologico Lombardo" association, which allows me to participate in measurement campaigns on Alpine glaciers.
I followed the classes of Forest Ecology and General Botany at the Università degli Studi di Milano.
I attended a course on traditional wood carpentry in Boccioleto, Piemonte, Italy.
I have a boat license for navigation within 12 miles of the coast for both motorboat and sailboat.

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