



**Tommaso  
Radicioni**

## CONTACT



LinkedIn: <https://www.linkedin.com/in/tommaso-radicioni-607629161/>  
Twitter: [https://twitter.com/t\\_radicio](https://twitter.com/t_radicio)

## PUBLICATIONS

- **Analysing Twitter Semantic Networks: the case of 2018 Italian Elections**  
2021 <https://www.nature.com/articles/s41598-021-92337-2>  
Scientific Reports Rep 11, 13207 (2021)  
DOI: <https://doi.org/10.1038/s41598-021-92337-2>
- **Networked partisanship and framing: a socio-semantic network analysis of the Italian debate on migration**  
2021 <https://arxiv.org/abs/2103.04653>  
arXiv preprint 2103.04653 (2021)
- **Echo chambers e polarizzazione. Uno sguardo critico sulla diffusione dell'informazione nei social network**  
2018 <https://thelabsquarterly.files.wordpress.com/2019/04/2018.4-the-labs-quarterly-7.-costantino-carugno-tommaso-radicioni-1.pdf>  
The Labs Quarterly XX n.04 (2018)
- **Maximum entropy approach to link prediction in bipartite networks**  
2018 <https://arxiv.org/abs/1805.04307>  
arXiv eprint: 1805.04307 (2018)
- **The calorimeter of the Mu2e experiment at Fermilab**  
2017 [stacks.iop.org/1748-0221/12/i=01/a=C01061](https://stacks.iop.org/1748-0221/12/i=01/a=C01061)  
Journal of Instrumentation 12 n.01 (2017)
- **Calibration and performance optimization of the Electromagnetic Calorimeter in Mu2e**  
2016 <https://etd.adm.unipi.it/theses/available/etd-09252016-171400/>  
Master's Thesis, University of Pisa (2016)

## EDUCATION AND TRAINING

- **01/11/2017 – CURRENT** – Piazza dei Cavalieri 7 , Pisa, Italy  
**PhD student in Data Science**  
Scuola Normale Superiore di Pisa  
<https://datasciencephd.eu/>
- **02/09/2019 – 06/09/2019** – Pisa, Italy  
**DSSS2019 - Data Science Summer School 2019**  
Data Science PhD Schools in Pisa and Rome  
<https://datasciencephd.eu/DSSS19/>
- **19/07/2019 – 25/07/2019** – Lipari, Italy  
**Lipari School on Computational Complex and Social Systems**  
J. T. Schwartz International School for Scientific Research  
<https://datasciencephd.eu/events/lipari-school-computational-complex-and-social-systems-data-science>
- **16/07/2018 – 21/07/2018** – Varenna, Italy

## International School on "Computational Social Science and Complex Systems"

Enrico Fermi Schools - Italian Physical Society

<https://sites.google.com/view/varennacs2018/>

07/05/2018 - 11/05/2018 - Lucca, Italy

## "Complexity72h" Workshop

IMT School for Advanced Studies

<https://complexity72h.weebly.com/2018.html>

07/08/2017 - 18/08/2017 - Jyväskylä, Finland

## 27th Jyväskylä Summer School "Online Social Media Analytics"

University of Jyväskylä

<https://www.jyu.fi/en/research/summer-and-winter-schools/jss>

03/07/2017 - 07/07/2017 - Utrecht, Netherlands

## Utrecht Summer School "Introduction to Complex Systems"

Utrecht University

<https://www.uu.nl/en/events/utrecht-summer-school-introduction-to-complex-systems>

28/11/2016 - 24/02/2017 - Kirk Road and Pine Street, Batavia (IL), United States

## Internship Program at Mu2e experiment (Fermilab)

Fermilab

Three-months internship funded by the Minister of Foreign Affairs and the National Institute for Nuclear Physics (INFN) "La fisica delle particelle per esplorare l'Universo" for graduate and PhD students

Project Name: "Analysis of the Mu2e calorimeter prototype test beam and corresponding improvement of the calorimeter simulation and analysis tool" - Supervisors: Prof. Stefano Di Falco, Prof. Pavel Murat

### Field(s) of study

- High Energy Physics

<https://www.fnal.gov>

22/10/2013 - 24/10/2016 - Lungarno Pacinotti 43, Pisa, Italy

## Master Degree in Physics

University of Pisa

High Energy Physics, Experimental Physics, Accelerator Physics, Basics of Statistics, Monte Carlo Methods

### Field(s) of study

- Physics

110/110 | Calibration and performance optimization of the Electromagnetic Calorimeter in Mu2e | <https://www.df.unipi.it/>

27/07/2015 - 25/09/2015 - Kirk Road and Pine Street, Batavia (IL), United States

## Internship for Summer Research Program at Mu2e experiment (Fermilab)

Fermilab

Summer Intern position for research program at Fermilab, Chicago

Final relation: "Mu2e tracker momentum calibration using the mu decay in electron and neutrinos" - Supervisor: Prof. Pavel Murat

**Field(s) of study**

- High Energy Physics

<https://www.fnal.gov/>

**30/06/2014 – 26/09/2014** – Esplanade des Particules 1, Geneva, Switzerland

**Internship for Summer Research Program at CMS experiment (CERN)**

CERN

Associated Member of the Personnel (Summer Student) of the European Organization for Nuclear Research, CERN, Geneva

Final relation: "Optimization of a search for squark with  $M_{T2}$  hadronic" - Supervisors: Prof. Maria Rosaria D'Alfonso, Prof. Filip Moortgat

**Field(s) of study**

- High Energy Physics

<https://home.cern/>

**01/09/2010 – 22/10/2013** – Lungarno Pacinotti 43, Pisa, Italy

**Undergraduate Degree in Physics**

University of Pisa

Fundamentals of mathematics, computer science, statistics, physics,

**Field(s) of study**

- Physics

107/110 | <https://www.df.unipi.it/>

**10/09/2005 – 07/07/2010** – Via Carlo Manuali 12, Perugia, Italy

**Scientific High School Diploma**

Liceo Scientifico "G. Galilei"

95/100 | <https://www.galileipg.edu.it/>

## CONFERENCES AND SEMINARS

**05/07/2021 – 10/07/2021** > – Online Conference

### **Networks 2021: A Joint Sunbelt and NetSci Conference**

Selected talk during the conference.

Title: An entropy-based approach to the analysis of discursive communities on the Italian Twittersphere

**05/05/2021 – 07/05/2021** > – Online Conference

### **Entropy 2021: The Scientific Tool of the 21st Century**

Selected poster during the conference.

Title: Analysing discursive communities and semantic networks on Twitter: an entropy-based approach

**30/11/2020 – 04/12/2020** > – Online Conference

### **9th International Conference on Complex Networks and their Applications (Complex Networks 2020, Madrid)**

Selected lightning talk during the conference.

Talk title: "The Italian Twittersphere discussion on migration: a network analysis"

<https://complexnetworks.org/>

**17/09/2020 – 25/09/2020** > – Online Conference

### **NetSci2020 Conference**

Selected talk during the conference.

Talk title: "Analyzing Twitter semantic networks: two Italian case studies"

<https://netsci2020.netscisociety.net/>

**20/05/2020 – 08/06/2020** > – Online Conference

### **Data Science Colloquium 2020**

Presentation of the PhD research project during the online event organized by the PhD Data Science board members

<https://datasciencephd.eu/events/data-science-colloquium-2020>

**24/11/2019 – 25/11/2019** > – IMT School for Advanced Studies - Lucca

### **First Toffee Workshop**

Selected Talk during the workshop organized by TOFFEE (TOol for Fighting FakEs), an internal project funded by IMT School For Advanced Studies under the PAI (Progetto di Attività Integrate, *Integrated Activity Project*) program.

Talk title: "Analyzing Twitter semantic networks: the case study of 2018 Italian Elections"

<https://toffee.imtlucca.it/workshops/toffee-workshop-1>

**13/02/2019 – 14/02/2019** > – Auditorium Officine Garibaldi

### **Data Science Colloquium 2019**

Presentation of the PhD research project during the event organized by the PhD Data Science board members

<https://datasciencephd.eu/events/data-science-colloquium-2019>

## HONOURS AND AWARDS

**26/10/2017**

**Open Data per la Cultura 2017** – cheFare, Fondazione Cariplo and Compagnia di San Paolo

Second Award of the competition "Open Data per la Cultura 2017"

<https://www.che-fare.com/vincitori-bando-open-data-la-cultura-2017/>

## WORK EXPERIENCE

01/03/2017 – 10/07/2017 – Pisa, Italy

### Museum guide

La Nuova Limonaia

I worked as a scientific guide and an organizer of activities for students of high schools and secondary school classes. The scientific exhibition “Uomo virtuale. La fisica esplora il corpo” in Palazzo Blu (Pisa) has been realized to explain introductory concepts and ideas about scientific advancements in the exploration of the human body.

01/06/2011 – 20/12/2014 – Pisa, Italy

### Library assistant

University of Pisa

I worked as a librarian in a part time job at the information desk in two university libraries at the University of Pisa. I was responsible for providing reference, instruction and library orientation services and for cataloguing collections and books.

## DIGITAL SKILLS

### Programming Languages

R Programming / Python / HTML/CSS / Bash Programming / SQL / LaTeX / C / C++

### Operating Systems and Softwares

Wolfram Mathematica / ROOT / Gephi / Gnuplot / GNU Emacs / Linux

### Data Skills

Python Data Scraping / Data Science with R / Statistical Analysis / Data Mining / Social Network Analysis / Machine Learning / Data analytics and Data visualization / Text Analytics

### Other Digital Skills

Office Microsoft Office Open Office e LibreOffice / Slack / Video Conferencing (Zoom Skype Google Hangout) / Social Media / Git

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**OTHER LANGUAGE(S):**

### English

<b>Listening</b> B2	<b>Reading</b> B2	<b>Spoken production</b> B2	<b>Spoken interaction</b> B2	<b>Writing</b> B2
------------------------	----------------------	--------------------------------	---------------------------------	----------------------

### French

<b>Listening</b> A1	<b>Reading</b> A1	<b>Spoken production</b> A1	<b>Spoken interaction</b> A1	<b>Writing</b> A1
------------------------	----------------------	--------------------------------	---------------------------------	----------------------

## ORGANISATIONAL SKILLS

### ● **Support in organizing seminars and the annual physics department meeting at the University of Pisa**

I organized a series of seminars about scientific issues and I helped to organize the annual physics department meeting at the University of Pisa

### ● **Organization of scientific laboratories for high school students**

I contributed to realize a scientific laboratory for high school students in order to teach them some basic physics concepts through construction of simple electromagnetic engines and tools

## COMMUNICATION AND INTERPERSONAL SKILLS

### ● **Masterclass online on "Scientific Communication" organized by FameLab Italia**

I followed 4 hours of lectures of the Masterclass on Scientific Communication organized as part of the events related to the selections for the contest "FameLab Italia"

<https://famelab-italy.it/famelab-pisa/>