



Michele Re Fiorentin

Curriculum Vitae

Personal information

Date of birth 2nd September 1988
Place of birth Moncalieri (TO), Italy
Citizenship Italian

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Istituto Italiano di Tecnologia
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Work experience

03/2017– ongoing **Postdoctoral researcher**, *Centre for Sustainable Future Technologies, Istituto Italiano di Tecnologia (IIT), Torino, IT.*

Teaching experience

- 2020 Teaching assistant of the course “**Fisica I**” at *Politecnico di Torino*.
- 2019 Teaching assistant of the course “**Physics II - Modern Physics**” at *Politecnico di Torino*.
- 2019 Teaching assistant of the course “**Fisica II**”, classical electromagnetism and optics at *Politecnico di Torino*.
- 2013/2014 Demonstrator of “**Physics from evidence II**” laboratory course for undergraduates at the *University of Southampton*.
- 2012/2013 Demonstrator of **Crystalline solids** course for undergraduates at the *University of Southampton*.

Education

2012–2016 **Ph.D. in Physics**, *University of Southampton*, Southampton, UK.
Supervisor Dr. Pasquale Di Bari

2010–2012 **Master of Science in Physics**, *Università di Torino*, Torino, IT.
Grade 110/110 *summa cum laude*
Thesis advisor Dr. Fiorenza Donato

2010–2012 **Diploma of the School of Superior Studies**, *Università di Torino*, Torino, IT.
Grade 70/70 *cum laude*
Thesis advisor Prof. Raffaella Ricci

2007–2010 **Bachelor of Science in Physics**, *Università di Torino*, Torino, IT.
Grade 110/110 *cum laude*
Thesis advisor Dr. Carlo Angelantonj

List of recent publications

- 2020 “Spatially indirect excitons in black and blue phosphorene double layers” Michele Re Fiorentin, G. Cicero, M. Palummo, *Phys. Rev. Materials* **4** (2020) 074009, doi.org/10.1103/PhysRevMaterials.4.074009
- 2020 “Unravelling electrocatalytic properties of metal porphyrin-like complexes hosted in graphene matrices” Michele Re Fiorentin et al. *2D Mater.* **7** (2020) 025017, doi.org/10.1088/2053-1583/ab6a5f
- 2020 “Nonwoven Mats of N-doped Carbon nanofibers as High-performing Anodes in Microbial Fuel Cells”, G. Massaglia, V. Margaria, Michele Re Fiorentin et al., *Materials Today Energy* **16** (2020) 100385, doi.org/10.1016/j.mtener.2020.100385
- 2019 “Microwave-assisted synthesis of copper-based electrocatalysts for converting carbon dioxide to tunable syngas” J. Zeng, K. Bejtka, Michele Re Fiorentin et al., *ChemElectroChem*, **7** (2020), 229, doi.org/10.1002/celec.201901730
- 2019 “Representing seesaw neutrino models and their motion in lepton flavour space” Pasquale Di Bari, Michele Re Fiorentin, Rome Samanta, *JHEP* **1911** (2019) 011, [doi.org/10.1007/JHEP05\(2019\)011](https://doi.org/10.1007/JHEP05(2019)011)
- 2018 “Nitrogen doping and CO₂ adsorption on graphene: A thermodynamical study” Michele Re Fiorentin, Roberto Gaspari, Marzia Quaglio, Giulia Massaglia, Guido Saracco, *Phys. Rev. B* **97**, 155428 (2018).
- 2018 “Epidemic threshold in continuous-time evolving networks” Eugenio Valdano, Michele Re Fiorentin, Chiara Poletto, Vittoria Colizza, *Phys. Rev. Lett.* **120**, 068302 (2018), [[arXiv:1706.05968](https://arxiv.org/abs/1706.05968) [physics.soc-ph]].

- 2017 *"Full analytic solution of $SO(10)$ -inspired leptogenesis"* Pasquale Di Bari, Michele Re Fiorentin, JHEP **1710** (2017) 029 [[arXiv:1705.01935](https://arxiv.org/abs/1705.01935) [hep-ph]].
- 2016 *"A consistent model for leptogenesis, dark matter and the IceCube signal"* Michele Re Fiorentin, Viviana Niro, Nicolao Fornengo, JHEP **1611** (2016) 022 [[arXiv:1606.04445](https://arxiv.org/abs/1606.04445) [hep-ph]].

Communication skills

Recent seminars and posters at scientific conferences

- Feb. 2020 Talk at **EnerChem2**, Padova (IT).
- Jan. 2019 Poster at the "19th International Workshop on Computational Physics and Material Science: Total Energy and Force Methods", Trieste (IT).
- June 2018 **Poster** at **NetSci** "International Conference on Network Science", Paris. Best contributed poster award.

Language skills

Italian	Mothertongue	
English	Fluent	<i>IELTS grade 8.0</i>
French	Intermediate	
Croatian	Basic	

Additional information

- 2016-2017 Financial Coordinator of the Organising Committee of the *XXXII International Conference of Physics Students - ICPS*, Torino 2017, <http://icps2017.it>. *7 days conference Aug. 7-14 2017, 450+ participants, 7 international guest speakers, 100+ parallel talks, lab visits, 8 scientific excursions, 170k€ total budget.*
- 2015-2017 Treasurer of the Italian Association of Physics Students, (Associazione Italiana Studenti di Fisica - AISF, <http://ai-sf.it>)
- 2016 Vice-President of the Organising Committee of the Second Italian Conference of Physics Students (Seconda Conferenza Italiana Studenti di Fisica - CISF), Torino, 22-24/04/2016, <http://ai-sf.it/cisf2016>
- 2015 President of the Organising Committee of the First Italian Conference of Physics Students (Prima Conferenza Italiana Studenti di Fisica - CISF), Torino, 15-17/05/2015