

## CV – Davide Michieletto

Michieletto, Davide -- ORCID: 0000-0003-2186-6869

Date of birth: 12/06/1987 -- Nationality: Italy -- URL for web site: [www2.ph.ed.ac.uk/~dmichiel/](http://www2.ph.ed.ac.uk/~dmichiel/)

### EDUCATION

- 2015 **PhD**, Dept. of Physics and Centre for Complexity Science, University of Warwick  
**Supervisor:** Matthew S. Turner; **Thesis:** “Topological Interactions in Ring Polymers”
- 2012 MSc in Complexity Science (with Distinction)  
Dept. of Physics and Centre for Complexity Science, University of Warwick, UK
- 2011 MSc in Theoretical Physics (1<sup>st</sup> class equivalent, cum laude)  
Department of Physics and Astronomy, University of Padova, Italy
- 2009 BSc in Physics (1<sup>st</sup> class equivalent)  
Department of Physics and Astronomy, University of Padova, Italy

### CURRENT POSITION

- 1/2021–2026 **Royal Society University Research Fellow (Reader equivalent)**  
School of Physics and Astronomy & Institute of Genetics and Cancer, UEDIN, UK.  
[PI of the “Topologically Active Polymers” Lab.](#)

### PREVIOUS POSITIONS

- 2020–2020 **Leverhulme Early Career Fellow**  
School of Physics and Astronomy, UEDIN, UK  
[Independent fellowship to study topological materials](#)
- 2019–5/2020 **Research Fellow**  
Department of Mathematical Sciences, University of Bath, UK  
[PI: Dorothy Buck](#)  
[Project: DNA topology in vivo](#)
- 2017 – 2019 **Research Assistant**, School of Physics and Astronomy (SoPA) & Institute of Genetics and Molecular Medicine (IGMM), UEDIN, UK  
[PIs: Davide Marenduzzo and Nick Gilbert \(wet lab advisor\)](#)  
[Project: Simulations and Super-Resolution Microscopy of Chromatin Structure](#)  
[I shared my time in between SoPA and a wet lab at the IGMM where I learned a range of molecular biology skills and microscopy techniques.](#)
- 2015 – 2017 **Research Assistant**, School of Physics and Astronomy, UEDIN, UK  
[PI: Davide Marenduzzo](#)  
[Project: Computational Models of Epigenomic Organisation](#)  
[Computational modelling to understand the folding of chromatin in vivo.](#)

### FELLOWSHIPS

- 2020 – 2021 Leverhulme Early Career Fellowship (68k GBP)  
[Success rate 2019 = 14%](#)
- 2021 – 2026 Royal Society University Research Fellowship (800k GBP)  
[Success Rate = 5-10%](#)

### GRANTS

- 2021 – 2026 PI – ERC Starting Grant – 1.5M EUR  
[To study Topologically Active Polymers \(TAPs\).](#)
- 2019 – 2023 coPI – COST European TOPology Interdisciplinary Action (CA17139) – 0.5M EUR  
[I co-wrote the grant application, sit in the management committee, I am part of the core group, unanimously appointed as leader of the working group on DNA, I co-chair the exploitation board and am one of the two UK representatives.](#)
- 2019 – 2020 PI – Royal Society International Exchanges – 6k GBP  
[To visit Prof. Roberston-Anderson’s team in San Diego.](#)
- 2019 – 2020 coPI – Scottish Universities Life Science Alliance (SULSA) – 10k GBP  
Technology Seed Funding Grant  
[To develop novel algorithms for super-resolution imaging.](#)  
[Jointly with M Marena \(Edinburgh\) and S van de Linde \(Strathclyde\).](#)

- 2019 – 2020 PI – 2x EPSRC/BBSRC Sandpit Grant (Physics of Life Network) – 3k GBP  
 To establish collaborations with biologists on epigenetics (Prof Higgins, Newcastle), and DNA transposition (Drs Bousios, Sussex and Nuetzman, Bath)
- 2016 PI – Institute of Physics Early Career Researcher Fund – 600 GBP
- 2016 – 2020 PI – Supercomputing Time-Grant (EUSMI/JURECA, 2M CPU-h ~ 40k GBP)  
 Computing time on supercomputer for large-scale simulations.
- 2015 PI – Institute of Physics Conference Bursary – 300 GBP
- 2011 – 2015 PI – EPSRC Scholarship – 50k GBP

### **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

All done at the School of Physics and Astronomy, University of Edinburgh, UK

- Since 2020 Main supervisor of 3 Postdoctoral Research Assistants
- Since 2020 Main supervisor of 5 PhDs (Battaglia, Brown, Palombo, Hartnett, Hongh-Minh)
- Since 2015 Co-supervisor of 2 PhDs (Y Fosado completed, A Bonato ongoing)
- Since 2019 Main supervisor of 7 MPhys students (5 completed, 2 ongoing)
- Since 2018 Main supervisor of 20 SenHon projects (16 completed, 4 ongoing)

### **ORGANISATION OF SCIENTIFIC MEETINGS (main organiser + 4 more as co-organiser)**

- 2022 EUTOPIA Summer School, Paris, France  
 Summer School, 50 participants, sponsors: COST, Horizon2020  
<https://www.physicsoflife.org.uk/physics-of-life-summer-school-2022.html>
- 2022 Interdisciplinary Challenges in Non-Equilibrium Physics III, Edinburgh, UK  
 Summer School, 160 participants, sponsors: Higgs centre, Physics of Life  
<https://www.physicsoflife.org.uk/physics-of-life-summer-school-2022.html>
- 2019 Interdisciplinary Challenges in Non-Equilibrium Physics, Edinburgh, UK  
 Conference, 70 participants, sponsors: Higgs centre, Physics of Life  
<https://www2.ph.ed.ac.uk/~dmichiel/EdinburghMeeting2019.html>
- 2019 4D Epigenome, Venice, Italy  
 Conference, 40 participants, sponsor: COST, Horizon2020  
<https://www2.ph.ed.ac.uk/~dmichiel/VeniceMeeting2019.html>
- 2018 Biophysics of Epigenetic and Chromatin Dynamics, UK  
 Conference, 50 participants, sponsors: Higgs centre and Physics of Life  
<https://higgs.ph.ed.ac.uk/workshops/the-physics-of-epigenetic-and-chromatin-dynamics/>

### **REVIEWING ACTIVITIES**

- 2022 – Reviewer for ERC Synergy Grants
- 2020 – Awarded Outstanding Referee prize by RSC “Soft Matter”
- 2019 – Reviewer for BBSRC (UK), ANR (France), DFG (Germany), NWO (Netherlands) Grants
- 2016 – Reviewer for Phys Rev Lett, PNAS, Phys Rev X, Nat Comm, Nature Struct Mol Biol, etc.

### **MEMBERSHIPS TO SCIENTIFIC SOCIETIES/COMMITTEES**

- 2021 – Invited to sit on the JACS Au Early Career Advisory Board (<24 scientists worldwide)
- 2021 – Member of the Statistical Mechanics & Thermodynamics RSC Group committee
- 2019 – Member of Research Network “EUTOPIA” (COST Action CA17139)
- 2016 – Associated Member of IoP (UK) & Member of the Italian Physics Society (SIF)

### **PRIZES**

- 2021 Statistical Mechanics and Thermodynamics Early Career Award, RSC
- 2020 Chancellor’s Rising Star Award, University of Edinburgh, UK
- 2016 Faculty of Science PhD Thesis Prize, University of Warwick, UK
- 2016 Outstanding PhD Thesis Prize, Springer Publishing Group, Germany
- 2015 Ian Ward Mcmillan Prize, Institute of Physics, UK