

LORENZO DI MICHELE: CURRICULUM VITAE

Full Name: Lorenzo Di Michele

Place and date of birth: Pescara (Abruzzo, Italy), 21st January 1985

Nationality: Italian, British

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Research interests

Nucleic acids, soft matter, nanotechnology, synthetic biology.

Education

2010–2013 University of Cambridge and Corpus Christi College, PhD in Physics

Thesis title: *Multicomponent amorphous phases of DNA functionalised colloids.*

2008–2010 University of L'Aquila (Italy), Laurea Magistrale in Fisica (equivalent MSc in Physics)

Grade: 110/110 cum Laude.

2004–2008 University of L'Aquila (Italy), Laurea in Fisica (equivalent BSc in Physics)

Grade: 110/110 cum Laude.

Research and academic experience

2021– Royal Society URF and Senior Lecturer, Department of Chemistry, Imperial College London.

2019–2021 Royal Society URF and Lecturer, Department of Chemistry, Imperial College London.

2018–2019 Royal Society URF, Cavendish Laboratory, University of Cambridge.

2016–2018 Leverhulme Early Career Research Fellow, Cavendish Laboratory, University of Cambridge.

2013–2016 Oppenheimer Early Career Research Fellow, Cavendish Laboratory, University of Cambridge.

2013–2016 John Henry Coates Research Fellow, Emmanuel College, University of Cambridge.

Grants and fellowships (selected)

Total Awarded: in excess of £3.5M as PI.

2021–2022 UKRI/EPSCRC New Horizons Grant. £250,000.

2020–2022 Royal Society Enhancement Award. £95,000.

2020–2023 BBSRC Responsive Mode Grant (Co-I). £500,000, PI for £150,000.

2020–2024 ERC Starting Grant. €1,500,000.

2018–2021 Royal Society International Exchange Grant. £12,000.

2018–2022 Royal Society Research Grant for Fellows. £118,000.

2018–2019 Isaac Newton Trust Research Grant. £40,000.

2018–2022 Royal Society University Research Fellowship. £600,000.

2016–2019 Fondation Wiener-Anspach collaborative grant. Co-PI. £150,000.

2016–2019 Leverhulme Early Career Fellowship with matching funds from Isaac Newton Trust. £160,000.

2013–2016 Oppenheimer Research Fellowship. £165,000.

2013–2016 John Henry Coates Research Fellowship, Emmanuel College, Cambridge. ~£50,000.

Awards

2017 Institute of Physics Liquids and Complex Fluids Early Career Award.

2018–2021 Invited to contribute to Emerging Leaders / Investigators special issues in *J. Phys: Cond. Matter* (2017), *J. Chem. Phys.* (2021) and *Soft Matter* (2021).

Teaching (selected)

2020– Lecturer, Analysis of Molecules, Materials and Mixtures (Imperial).

2020 Curriculum review working group (Imperial).

2019– Teaching Lab. Coordinator, 2nd year Physical Chemistry / Measurement Science (Imperial).

2019– Academic Tutor/Demonstrator for various Physical Chemistry modules (Imperial).

2020– BSc Physical Chemistry synoptic vivas (Imperial).

2020– Assessment of MSci and BSc final projects (Imperial).

2020 UCAS admission vivas (Imperial).

2014–2019 Head of Class of a 3rd year lab (Cambridge).

2010–2016 Supervisor for 3rd and 4th year courses (Cambridge).

Research supervising

- 13 PhD students (3 graduated, 10 ongoing).
- 4 PDRAs (3 ongoing).
- 3 MRes students.
- 6 CDT project students.
- 8 visiting masters students.
- 12 MSci project students (7 Cambridge, 5 Imperial).

Postgraduate examinations

- External examiner for 3 PhD students.
- Internal examiner for 2 PhD students.
- Internal examiner of 1 MPhil student.
- Examiner for the first/second year probationary exam of 15 PhD students.

Committee memberships and staff responsibilities (selected)

2021– Co-Director of the fabriCELL Institute and Network of Excellence (Imperial).

2019– Secretary and Member of the IoP Liquids and Complex Fluids Group Committee.

2017–2019 Steering Committee Member, Synthetic Biology Strategic Research Initiative (Cambridge).

2015–2016 Coordinator of the Bionanotechnology Theme, EPSRC CDT in Nanoscience and Nanotechnology (Cambridge).

Event organisation

2019 IoP Advanced School of Soft Condensed Matter "Solutions in the Summer".

2018 IoP workshop "Nanostructures at Interfaces: Technology and Biophysics".

Outreach activity

2013–2017 Demonstrator (×5) and coordinator (×4) of an exhibition on polymer physics in the "Physics at Work" outreach event (Cambridge).

2012–2013 Demonstrator in the UK-Japan Young Scientists event (2012-2013) (Cambridge).

Grant / fellowship referee. ERC Starting Grants, ERC Consolidator Grants, Croucher Foundation, US Department of Energy.

Invited talks (selected)

Over 30 invited talks in conferences and seminar series.

- 2021 Bio-softmatter Seminar Series, Leiden University, The Netherlands, (remote).
- 2021 Departmental Seminar, Department of Physics, University of Rome La Sapienza, Italy (remote).
- 2021 Departmental Seminar, Department of Chemistry, Queen Mary University of London, UK (remote).
- 2021 Telluride Meeting on "Complexity in the Chemistry and Physics of lipid membranes", USA (remote).
- 2020 Ohio State University Biophysics Seminar, USA (remote).
- 2020 Lorentz Center Workshop "Nanomaterial formation at fluid-fluid interfaces", The Netherlands (remote).
- 2020 CÚRAM webinar series, Ireland (remote).
- 2019 Keynote speaker at 93rd ACS Colloid and Surface Science Symposium, Georgia, USA.
- 2018 IoP Liquids and Complex Fluids Early Career Award Lecture, Cambridge, UK.
- 2018 CECAM Workshop, Lincoln, UK.
- 2018 BioSoft seminar series, Department of Physics, University of Warwick, UK.
- 2017 Department of Chemistry, University of Rome Tor Vergata, Italy.
- 2017 Physical Biology Conference 2017, Mexico, (plenary lecture).
- 2017 Laboratoire Charles Coulomb, University of Montpellier, France.
- 2016 Department of Physics, Université Libre the Bruxelles, Belgium.
- 2016 Bioscience Seminar Series, University of Exeter, UK.
- 2014 Self-assembly Interactive Workshop, University of Cambridge, UK.
- 2013 Weekly Statistical Mechanics Seminar, Department of Chemistry, University of California Berkeley, USA.

Publications in peer-reviewed journals

‡ Equal contribution; † Corresponding author.

- (41) R. Rubio-Sánchez, D. O'Flaherty, A. Wang, F. Coscia, G. Petris, L. Di Michele, P. Cicuta, and C. Bonfio[†], **J. Am. Chem. Soc.**, accepted, (2021).
- (40) M. Walczak, R. Brady, C. Contini, R. Rubio-Sánchez, W. Kaufhold, P. Cicuta and L. Di Michele[‡], **Nat. Comm.**, 12:4743, (2021).
- (39) D. Sobota[‡], R. Rubio-Sánchez[‡], H. Joshi[‡], A. Aksimentiev[‡], L. Di Michele[‡], and U. Keyser[‡], **J. Am. Chem. Soc.**, 143, 7358-7367, (2021).
- (38) R. Rubio-Sánchez, S. Eizagirre-Barke, M. Walczak, P. Cicuta and L. Di Michele[‡], **Nano Lett.**, 21, 2800-2808, (2021).
- (37) A.H. Clowsley, W.T. Kaufhold, T. Lutz, A. Meletiou, L. Di Michele, and C. Soeller[†], **Nat. Comm.**, 12:501, (2021).
- (36) R. Lanfranco, P.K. Jana, G. Bruylants, P. Cicuta, B.M. Mognetti and L. Di Michele[‡], **Nanoscale**, 12, 18616-18620, (2020).
- (35) A.H. Clowsley[‡], W.T. Kaufhold[‡], T. Lutz[‡], A. Meletiou, L. Di Michele, and C. Soeller[†], **J. Am. Chem. Soc.**, 142, 12069-12078, (2020).
- (34) J. del Barrio[‡], Ji Liu, R. A. Brady, C. S. Y. Tan, S. Chiodini, M. Ricci, R. Fernández-Leiro, C.-J. Tsai, P. Vasileiadi, L. Di Michele, D. Lairez, C. Toprakcioglu, O. A. Scherman[†], **J. Am. Chem. Soc.**, 141(36),14021-14025, (2019).
- (33) B.M. Mognetti[‡], P. Cicuta[‡], and L. Di Michele[‡], **Rep. Prog. Phys.**, 82(11), (2019).
- (32) W.T. Kaufhold, R.A. Brady, J. M. Tuffnell, P. Cicuta and L. Di Michele[‡], **Bioconjugate Chem.**, 30(7), 1850-1859, (2019).
- (31) R. Lanfranco[‡], P.K. Jana, L. Tunesi, P. Cicuta, B.M. Mognetti, L. Di Michele[‡], G. Bruylants[‡], **Langmuir**, 35, 6, 2002-2012, (2019).
- (30) E.L. Talbot, J. Kotar, L. Di Michele, P. Cicuta[†], **Soft Matter**, 15, 1676-1683, (2019).
- (29) R.A. Brady, W.T. Kaufhold, N.J. Brooks, V. Fodera, L. Di Michele[‡], **J. Phys.: Cond. Matter**, 31 074003, (2019).
- (28) R.A. Brady, N.J. Brooks, V. Fodera, P. Cicuta[‡], L. Di Michele[‡], **J. Am. Chem. Soc.**, 140(45), 15384-15392, (2018).
- (27) L. Di Michele[‡], P.K. Jana, B.M. Mognetti[‡], **Phys. Rev. E**, 98, 03240, (2018).
- (26) T. Lutz, A.H. Clowsley, R. Lin, S. Pagliara, L. Di Michele, and C. Soeller[†], **Nano Res.**, 12, 6141-6154, (2018).
- (25) I.D. Jayasinghe[‡], A.H. Clowsley[‡], R. Lin, T. Lutz, C. Harrison, E. Green, D. Baddeley, L. Di Michele, and C. Soeller[†], **Cell Rep.**, 22(2), 557-567, (2018).
- (24) B.L.C. Borro, L. Parolini, P. Cicuta, V. Fodera[†], and L. Di Michele[‡], **Phys. Chem. Chem. Phys.**, 19, 27930-27934, (2017).
- (23) S.A. Rautu, D. Orsi, L. Di Michele, G. Rowlands, P. Cicuta[‡], and M.S. Turner[†], **Soft Matter**, 13, 3480-3483, (2017)
- (22) R.A. Brady, N.J. Brooks, P. Cicuta[‡], and L. Di Michele[‡], **Nano Lett.**, 17(5), 3276-3281, (2017).
- (21) E.L. Talbot, L. Parolini, J. Kotar, L. Di Michele, and P. Cicuta[†], **Nat. Comm.**, 8:15351, (2017).
- (20) O.A. Amjad, B.M. Mognetti, P. Cicuta[‡], L. Di Michele[‡], **Langmuir**, 33(5),1139-1146, (2017).
- (19) E.L. Talbot, L. Parolini, J. Kotar, L. Di Michele, and P. Cicuta, **Proc. Natl. Acad. Sci. USA**, 114(5), 846-851, (2017).
- (18) S.J. Bachmann[‡], J. Kotar[‡], L. Parolini, P. Cicuta[‡], L. Di Michele[‡], B.M. Mognetti[‡], **Soft Matter**, 12(37), 7804-7817, (2016).
- (17) L. Di Michele, S.J. Bachmann, L. Parolini, B.M. Mognetti[‡], **J. Chem. Phys.** 144(16), 161104, (2016).
- (16) L. Parolini, J. Kotar, L. Di Michele[‡] and B.M. Mognetti[‡], **ACS Nano**, 10(2), 2392-2398, (2016).
- (15) S.F. Shimobayashi, B.M. Mognetti, L. Parolini, D. Orsi, P. Cicuta[‡] and L. Di Michele[‡], **Phys. Chem. Chem. Phys.**, 17, 15615-15628, (2015).
- (14) A. Zacccone, I Terentjev, L. Di Michele and E.M. Terentjev[†], **J. Chem. Phys.**, 142, 114905, (2015).
- (13) L. Parolini, B. M. Mognetti, J. Kotar, E. Eiser, P. Cicuta and L. Di Michele, **Nat. Comm.**, 6:5948, (2015).
- (12) L. Di Michele[‡], B.M. Mognetti[‡], T. Yanagishima, P. Varilly, Z. Ruff, D. Frenkel[†] and E. Eiser[†], **J. Am. Chem. Soc.**, 136(18), 6538-6541, (2014).
- (11) L. Di Michele[‡], D. Fiocco[‡], F. Varrato[‡], S. Sastry, E. Eiser and G. Foffi[†], **Soft Matter**, 10(20), 3633-3648, (2014).
- (10) L. Di Michele, E. Eiser and V. Fodera, **J. Phys. Chem. Lett.**, 4, 3158-3164 (2013).
- (9) L. Di Michele, F. Varrato, J. Kotar, S. H. Nathan, G. Foffi and E. Eiser[†], **Nat. Comm.**, 4:2007, (2013).
- (8) L. Di Michele and E. Eiser[†], **Phys. Chem. Chem. Phys.**, 15(9), 3115-3129, (2013).
- (7) F. Varrato, L. Di Michele, M. Belushkin, N. Dorsaz, S. H. Nathan, E. Eiser and G. Foffi[†], **Proc. Natl. Acad. Sci. USA**, 109(47), 19155-19160, (2012) .
- (6) L. Di Michele[‡], A. Zacccone[†] and E. Eiser[†], **Proc. Natl. Acad. Sci. USA**, 109(26), 10187-10192, (2012).
- (5) T. Yanagishima, L. Di Michele, J. Kotar and E. Eiser[†], **Soft Matter** 8(25), 2792-2798, (2012).
- (4) L. Di Michele, T. Yanagishima, A. R. Brewer, J. Kotar, E. Eiser[†] and S. Fraden, **Phys. Rev. Lett.**, 107(13), 136101, (2011).
- (3) L. Di Michele, C. Shelly, P. De Marco, P. See, D. Cox and O. Kazakova[†], **J. Appl. Phys.**, 110(6), 063916, (2011).
- (2) L. Di Michele, C. Shelly, J. Gallop and O. Kazakova[†], **J. Appl. Phys.**, 108(10), 103918, (2010).
- (1) A. Filipponi[†], L. Di Michele and C. Ferrante, **Am. J. Phys.**, 78(4), 437-444, (2010).