CURRICULUM VITAE

(last updated 12 April 2024)

Full name

Paulo Ivo Cortez Teixeira.

Date and place of birth

8 June 1965, Damaia, Portugal.

Citizenship

Portuguese.

Present Address

Centro de Física Teórica e Computacional
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Education

- 1983–1987: undergraduate student, University of Lisbon, Lisbon, Portugal.
- 1987–1990: postgraduate student (MSc programme), University of Lisbon, Lisbon, Portugal.
- 1990–1993: postgraduate student (MPhil/PhD programme), University of Southampton, Southampton, UK.

Degrees obtained

- BSc (Licenciatura) in Physics (grade 15/20, equivalent to Second Class Honours, Upper Division), University of Lisbon, Lisbon, Portugal, 1987.
- MSc in Condensed Matter Physics, University of Lisbon, Lisbon, Portugal, 1990.
- PhD in Physics, University of Southampton, Southampton, UK, 1993.
- Agregação (DSc) in Physics, University of Lisbon, Lisbon, Portugal, 2006.

Studentships held

- INIC (Portuguese 'Instituto Nacional de Investigação Científica') MSc Studentship, October 1987–October 1989.
- EEC Research Scholarship, May 1990–October 1990.
- JNICT (Portuguese 'Junta Nacional de Investigação Científica e Tecnológica') PhD Studentship, October 1990–September 1993.

Schools and advanced courses attended

- 1st Spring School on *Interfaces*: *Statics and Dynamics*, Lisbon, Portugal, April 1987.
- *II Iberian School on Condensed Matter Physics*, Figueira da Foz, Portugal, September 1987.
- NATO Advanced Study Institute on *Phase Transitions in Soft Condensed Matter*, Geilo, Norway, April 1989.
- NATO Advanced Study Institute on *Phase Transitions in Liquid Crystals*, Erice, Italy, May 1991.
- NATO Advanced Study Institute on *Observation and Prediction of Phase Transitions in Complex Fluids*, Varenna, Italy, July 1994.

- NATO Advanced Study Institute on *Soft and Fragile Matter*, St Andrews, Scotland, July 1999.

Appointments

- Postdoctoral Researcher, FOM Instituut voor Atoom- en Molecuulfysica, Amsterdam, The Netherlands (1993–1996).
- Postdoctoral Research Associate, Cavendish Laboratory, University of Cambridge, United Kingdom (1996–1998).
- Research Fellow, IRC in Polymer Science and Technology, Department of Physics, University of Leeds, United Kingdom (1998–2000).
- Research Fellow, Departamento de Engenharia de Materiais, Instituto Superior Técnico, Lisbon, Portugal (2000–2001).
- Lecturer (Professor Auxiliar), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2001–2006).
- Lecturer (Professor Adjunto), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2006–2020).
- Associate Professor (Professor Coordenador), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2020–present).
- Visiting Fellow, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom (1/3/2013–30/4/2013).

Research proposals funded

- Principal Investigator, 'Modelling textures in strained nematic elastomers'. Fundação para a Ciência e Tecnologia (Portugal) contract no. POCTI/CTM/42456/2001 (January–December 2004, 15,500 euros).
- Team Member, 'New tunable soft materials for nano and micro lithography'. Fundação para a Ciência e Tecnologia (Portugal) contract no. POCTI/CTM/56382/2004 (January 2005–December 2007, 72,000 euros).
- Principal Investigator, 'Theory and simulation of liquid crystals interacting with nanopatterned substrates'. Treaty of Windsor Programme grant no. B-54/07 (January–December 2007, 1,450 euros).
- Principal Investigator, 'A complex fluids and soft matter route to nanotechnology? Bringing together experiment, theory and computer simulation'. Fundação para a Ciência e Tecnologia (Portugal) / British Council Transnational Cooperation Programme (September 2008–March 2009, 1,400 euros).
- Team Member, 'Patterned surfaces and colloids: the effects of texture on fluid adsorption and self-assembly'. Fundação para a Ciência e Tecnologia (Portugal) contract no. PTDC/FIS/098254/2008 (January 2010–December 2012, 136,000 euros).
- Principal Investigator, 'Complex liquids at structured surfaces'. Fundação para a Ciência e Tecnologia (Portugal)/ Deutscher Akademischer Austauschdienst Transnational Cooperation Programme (May 2010–December 2011, 5,500 euros).
- Team member, 'The evolution of liquid foams under deformation: simulation, experiments and theoretical aspects' .Treaty of Windsor Programme grant no. B-20/10 (June 2010–May 2011, 1,500 euros).
- Node Coordinator, Marie Curie International Research Staff Exchange Scheme '"CLASS": Complex Liquids At Structured Surfaces'. European Union Programme FP7-PEOPLE-2009-IRSES, contract no. FP7-269181 (May 2011–April 2015, 71,400 euros).
- Team Member, 'Self-assembly of the Lisbon model of patchy colloids at patterned surfaces and more'. Fundação para a Ciência e Tecnologia (Portugal) contract no. EXCL/FIS-NAN/0083/2012 (2013–2015, 474,929 euros).

- Principal Investigator, 'DISCONEDGE – Hard discs between penetrable walls'. Lisbon Polytechnic Institute IDI&CA 2019 (May 2019–May 2020, 5,000 euros).
- Principal Investigator, 'LIQBRIDGE – Liquid bridges sliding along patterned substrates'. Lisbon Polytechnic Institute IDI&CA 2023 (September 2023–September 2024, 5,000 euros).

Teaching experience

- Postgraduate tutor, Mathematics for first-year Engineering students (one-semester course), University of Southampton, Southampton, UK (1990–1993).
- Tutor, Mathematical Methods 4 for second-year Physics students (one-semester course), University of Leeds, Leeds, UK (1999–2000).
- Lecturer and tutor, Materials I, II & III for second-year Engineering students (one-term courses), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2001–2005).
- Lecturer and tutor, Materials for second-year Engineering students (one-semester course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2005–2006).
- Tutor, Linear Algebra for first-year Engineering students (one-term course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2001–2005).
- Lecturer and tutor, Linear Algebra for first-year Engineering students (one-semester course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2005–2006).
- Tutor (2002–2005) and lecturer (2004–2005), Continuum Mechanics for second-year Engineering students (one-term course), School of Engineering, Catholic University of Portugal, Sintra, Portugal.
- Tutor, Continuum Mechanics for second-year Engineering students (one-semester course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2005–2006).
- Tutor, Thermodynamics and Waves for first-year Engineering students (one-term course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2002–2003).
- Tutor, Mechanics for first-year Engineering students (one-term course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2003–2004).
- Laboratory tutor, Electromagnetism for second-year Engineering students (one-semester course), School of Engineering, Catholic University of Portugal, Sintra, Portugal (2005–2006).
- Lecturer and tutor, Mechanics for first-year Chemical Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2006–2021).
- Lecturer and tutor, Electromagnetism and Optics for second-year Chemical Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2006–2018).
- Laboratory tutor, Electromagnetism and Optics module for second-year Chemical Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2008, 2010–present).
- Lecturer and tutor, Physics for first-year Applied Mathematics students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2017–2022).
- Lecturer and tutor, Electromagnetism and Spectroscopy for first-year Chemical Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2018–present).
- Lecturer and tutor, Electromagnetism and Optics B for second-year Biomedicall Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2020–present).
- Lecturer, tutor and laboratory tutor, Physics of Deformation and Flow for second-year Applied Physical Engineering students (one-semester course), Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2024–present).

Supervision, advisory and mentoring

- A. Oleksy, postdoc funded by Fundação para a Ciência e Tecnologia (Portugal), contract no. SFRH/BPD/71140/2010 (December 2011–November 2013).
- L. A. R. G. Cordeiro, Centre for Theoretical and Computational Physics summer project student (July 2020).
- M. S. Rodrigues, Centre for Theoretical and Computational Physics summer project student (July 2022).
- M. G. Abreu, Centre for Theoretical and Computational Physics summer project student (July 2023).

Administrative posts

- Director of Studies in Physics, Departament of Chemical Engineering, Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal (2007–2008).
- Principal Investigator, Condensed Matter Physics Group, Centre for Theoretical and Computational Physics, Lisbon University, Portugal (2008–2012).
- Lecturers' representative on the Physics Department Executive Board, Lisbon Engineering School, Polytechnic Institute of Lisbon (2018–2020).
- Coordinator, Condensed Matter Physics Section of Physics Department, Lisbon Engineering School, Polytechnic Institute of Lisbon (2021–present).
- Deputy Head of Physics Department, Lisbon Engineering School, Polytechnic Institute of Lisbon (2022–present).

Examining

- PhD external examiner for R. Blaak, University of Utrecht, The Netherlands, September 1997.
- PhD external examiner for J. M. Tavares, University of Lisbon, Portugal, September 1999.
- PhD external examiner for A. C. Trindade, New University of Lisbon, Portugal, February 2006.
- PhD external examiner for P. D. Duncan, University of Edinburgh, Scotland, August 2006.
- Examiner on the Admissions Board for Mature Undergraduate Students, Lisbon Engineering School, Polytechnic Institute of Lisbon, Lisbon, Portugal, 2007–2008.
- PhD external examiner for M. A. S. Barroso, University of Aveiro, Portugal, March 2007.
- MSc (post-Bologna) external examiner for M. M. B. Cardoso, Instituto Superior Técnico, Lisbon, Portugal, October 2007.
- PhD external examiner for A. E. Aluculesei, Instituto Superior Técnico, Lisbon, Portugal, May 2013.
- PhD external examiner for J. M. G. Sousa, University of Aveiro, Portugal, March 2014.
- MSc (post-Bologna) external examiner for N. M. S. Fortunato, University of Aveiro, Portugal, December 2015.
- PhD external examiner for R. P. Murtagh, Trinity College Dublin, University of Dublin, Ireland, January 2016.
- PhD external examiner for M. G. Pinto, Universidad Autónoma de Madrid, Spain, May 2017.
- PhD external examiner for S. Panzuela Pérez, Universidad Autónoma de Madrid, Spain, March 2019.
- MSc (post-Bologna) external examiner for R. B. Teixeira, University of Lisbon, Portugal, December 2020.
- MSc (post-Bologna) external examiner for P. M. N. Capelas, University of Aveiro, Portugal, December 2022.

Refereeing

1. Journals: more than 320 manuscripts reviewed for

- *Advanced Functional Materials.*
- *Applied Physics Letters.*
- *Biophysical Journal.*
- *Brazilian Journal of Physics*
- *Chemical Engineering Science.*
- *Chemical Physics Letters.*
- *Colloids and Surfaces A.*
- *European Physical Journal B.*
- *European Physical Journal E.*
- *European Physical Journal Plus.*
- *Europhysics Letters.*
- *Fluid Phase Equilibria.*
- *International Journal of Modern Physics B.*
- *International Journal of Thermophysics.*
- *Journal de Physique II.*
- *Journal of Applied Physics.*
- *Journal of Chemical Physics.*
- *Journal of Engineering Mathematics.*
- *Journal of Molecular Liquids.*
- *Journal of Physical Chemistry A.*
- *Journal of Physical Chemistry Letters.*
- *Journal of Physics A: Mathematical and Theoretical*
- *Journal of Physics: Condensed Matter.*
- *Journal of Physics D: Applied Physics.*
- *Journal of Statistical Mechanics: Theory and Experiment.*
- *Journal of Statistical Physics*
- *Langmuir.*
- *Liquid Crystals.*
- *Materials.*
- *Modelling and Simulation in Materials Science and Engineering.*
- *Molecular Crystals and Liquid Crystals.*
- *Molecular Physics.*
- *Molecular Simulation.*
- *Nanomaterials.*
- *Nanoscale.*
- *Nature Communications.*
- *New Journal of Physics.*
- *Philosophical Magazine.*
- *Philosophical Magazine Letters.*
- *Physica A.*
- *Physical Review B.*
- *Physical Review E.*
- *Physical Review Letters.*
- *Physical Review Research.*
- *Physical Review X.*
- *Physics Letters A.*
- *Royal Society Open Science.*
- *SIAM Journal on Applied Mathematics*

- *Smart Materials and Structures.*
- *Soft Matter.*

2. Publishers: book proposal reviewed for
- Cambridge University Press.

3. Funding agencies: Grant reviewer for
- Agence Nationale de la Recherche Scientifique (France).
- Centre Européen de Calcul Atomique et Moléculaire (Switzerland).
- European Science Foundation.
- Natural Sciences and Engineering Research Council of Canada.
- Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Dutch Science Foundation).

Organisation of meetings and conferences

- Co-Scientific Secretary (with M. H. Godinho), 9th European Conference on Liquid Crystals. Lisbon, Portugal, 2–6 July 2007.
- Member of the Organising Committee, Workshop *Flow(ers) and Jam(mers)*, Centro de Física Teórica e Computacional da Universidade de Lisboa. Lisbon, Portugal, 17–19 June 2009.
- Member of the International Programme Committee, 8th Liquid Matter Conference. Vienna, Austria, 6–11 September 2011.
- Member of the Organising Committee, 6th International Liquid Crystal Elastomer Conference. Lisbon, Portugal, 5–7 September 2011.
- Member of the Organising Committee, 9th European Conference on Foams – Eufoam 2012. Lisbon, Portugal, 8–11 July 2012.
- Chairman of the Local Organising Committee, 2nd Workshop on Complex Liquids At Structured Surfaces. Lisbon, Portugal, 10–12 October 2012.
- Member of the Local Organising Committee and of the International Programme Committee, 9th Liquid Matter Conference. Lisbon, Portugal, 21–25 July 2014.
- Co-Scientific Coordinator (with A. Checco and M. Tasinkeych), 3rd Workshop on Complex Fluids At Structured Surfaces. Berlin, Germany, 25–27 February 2015.
- Member of the Scientific Committee, MATCEL 2015 – Primeira Conferência de Materiais Celulares. Aveiro, Portugal, 7–8 September 2015.
- Member of the Organising Committee, MTG Fest – A Workshop in Honour of Margarida Telo da Gama. Lisbon, Portugal, 27–28 June 2016.
- Member of the Organising Committee, Liquid Crystals, Life and Languages, and other mathematical interdisciplinary studies: Tim Sluckin at 65. Southampton, United Kingdom, 30–31 August 2016.
- Member of the International Advisory Committee, 10th Liquid Matter Conference. Ljubljana, Slovenia, 16–21 July 2017.
- Member of the International Advisory Committee, 11th Liquid Matter Conference. Prague, Czech Republic, 18–23 July 2021.
- Member of the Organising Committee, 28th International Liquid Crystal Conference, Lisbon, Portugal, 24–29 July 2022.
- Member of the International Advisory Committee, 12th Liquid Matter Conference. Mainz, Germany, 22–27 September 2024.

Other professional activities

1. Editorships
- Member of Editorial Board, Catholic University Press (2005–2006).
- Guest Editor (with A. F. Martins and M. H. Godinho), Proceedings of the 9th European Conference on Liquid Crystals 2007. *Molecular Crystals and Liquid Crystals*, volumes 494 and 495 (2008).

- Guest Editor (with M. F. Vaz and M. E. Rosa), Proceedings of the 9th European Conference on Foams – Eufoam 2012. *Colloids and Surfaces A – Engineering and Phisicochemical Aspects*, volume 438 (2013).
- Member of the Liquids, Soft Matter and Biological Physics Board of *Journal of Physics: Condensed Matter* (2013–present).
- Guest Editor (with M. G. Miguel, J. M. Tavares and M. M. Telo da Gama), Special Issue on the 9th Liquid Matter Conference. *Journal of Physics: Condensed Matter*, volume 27, issue 19 (2015).
- Guest Editor (with J. M. Yeomans), Special Issue on Complex Fluids at Structured Surfaces. *Journal of Physics: Condensed Matter*, volume 29, issue 18 (2017).

2. Outreach

- Translator of chapter 5, *Planet Earth*, by Jonathan Weiner (Gradiva Publishers, Lisbon, Portugal, 1987).
- Translator, *Superforce*, by Paul Davies (Gradiva Publishers, Lisbon, Portugal, 1988).
- Translator (with H. Leitão), *Perfect Symmetry*, by Heinz Pagels (Gradiva Publishers, Lisbon, Portugal, 1990).
- Translator, *The Universe in a Nutshell*, by Stephen Hawking (Gradiva Publishers, Lisbon, Portugal, 2002).
- Translator, *Faster than the Speed of Light*, by João Magueijo (Gradiva Publishers, Lisbon, Portugal, 2003).
- Translator, *Lang leve de Natuurkunde*, by Bela Mulder. *Gazeta de Física* **27**(1), 4–12 (2004).
- Translator (with K. Lorenz), *Physik im Spiegel der Literatur*, by Klaus Mecke. *Gazeta de Física* **27**(4), 4–13 (2004).
- Translator, *Flatterland*, by Ian Stewart (Gradiva Publishers, Lisbon, Portugal, 2006).
- Translator, *Een wiskundige kijk in de hersenen*, by Natasha Maurits. *Gazeta de Matemática* **150**, 14–24 (2006).
- Translator, *Fluids with Attitude*, by Tim Sluckin (IST Press, Lisbon, Portugal, 2006).
- Translator, *De Natuurwetten*, by Sander Bais (Gradiva Publishers, Lisbon, Portugal, 2007).
- Translator, *The Electric Universe*, by David Bodanis (Gradiva Publishers, Lisbon, Portugal, 2008).
- Translator (with J. Braga), *The Big Bang*, by Simon Singh (Gradiva Publishers, Lisbon, Portugal, 2010).
- Translator, *Anarchy and the laws of physics*, by João Magueijo. *Gazeta de Física* **33**, 2–8 (2010).
- Translator, *Ye cannae change the laws of physics*, from *The Economist*, 2 September 2010. *Expresso*, 11 September 2010.
- Translator, *The Little Book of Black Holes*, by Steven S. Gubser and Frans Pretorius (Gradiva Publishers, Lisbon, Portugal, 2020).
- Translator, *The Little Book of Cosmology*, by Lyman Page (Gradiva Publishers, Lisbon, Portugal, 2022).

Prizes and awards

- Laureate of the *Concours Européen* of the Alliance Française de Lisbonne, Lisbon, Portugal, 1983.
- *Brain of British Institute* Award, Lisbon, Portugal, 1984.
- *Hermann Jahn Award*, University of Southampton, Southampton, UK, 1991.
- Honourable Mention, *Latin Union / Foundation for Science and Technology Prize for Scientific and Technical Translation into Portuguese*, Lisbon, Portugal, 2003 (for *The Universe in a Nutshell*, by Stephen Hawking).

- *Latin Union / Foundation for Science and Technology Prize for Scientific and Technical Translation into Portuguese*, Lisbon, Portugal, 2004 (for *Faster than the Speed of Light*, by João Magueijo).
- *American Physical Society Outstanding Referee Award*, 2008.
- *European Physical Journal Distinguished Referee*, 2014.

Languages

- Portuguese (native speaker).
- English (fluent).
- Dutch (good).
- French (fair).
- German (fair).

Membership of learned societies

- Institute of Physics, UK (CPhys MInstP since March 1999).
- Portuguese Physical Society.
- Royal Society of Chemistry, UK (MRSC since June 2017).
- American Association for the Advancement of Science.
- American Physical Society.
- European Physical Society.

Refereed publications (h-index=25, cited more than 2200 times)

1. 'Density functional theory for the interfacial properties of a dipolar fluid'. P. I. Teixeira and M. M. Telo da Gama, *Journal of Physics: Condensed Matter* **3**, 111–125 (1991).

2. 'Doping-induced anchoring transitions at liquid crystal surfaces'. P. I. C. Teixeira and T. J. Sluckin, *Proceedings of the 13th IMACS World Congress on Computation and Applied Mathematics*, ed. by R. Vichnevetsky and J. H. Miller, vol. 2, pp. 789–790 (Dublin, 1991).

3. 'Interfacial properties of mixtures of molecular fluids. Comparison between theory and experiment: CH_3I+CCl_4 and CH_3CN+CCl_4'. P. I. C. Teixeira, B. S. Almeida, M. M. Telo da Gama, J. A. Rueda and R. G. Rubio, *Journal of Physical Chemistry* **96**, 8488–8497 (1992).

4. 'Microscopic theory of anchoring transitions at the surfaces of pure liquid crystals and their mixtures. I. The Fowler approximation'. P. I. C. Teixeira and T. J. Sluckin, *Journal of Chemical Physics* **97**, 1498–1509 (1992).

5. 'Microscopic theory of anchoring transitions at the surfaces of pure liquid crystals and their mixtures. II. The effect of surface adsorption'. P. I. C. Teixeira and T. J. Sluckin, *Journal of Chemical Physics* **97**, 1510–1519 (1992).

6. 'Landau-de Gennes theory of anchoring transitions at a nematic liquid crystal–substrate interface'. P. I. C. Teixeira, T. J. Sluckin and D. E. Sullivan, *Liquid Crystals* **14**, 1243–1253 (1993). Erratum: *Liquid Crystals* **15**, 939–939 (1993).

7. 'A model calculation of the surface elastic constants of a nematic liquid crystal'. P. I. C. Teixeira, V. M. Pergamenshchik and T. J. Sluckin, *Molecular Physics* **80**, 1339–1357 (1993).

8. 'Distortions induced by the K_{13} surface-like elastic term in a thin nematic film'. V. M. Pergamenshchik, P. I. C. Teixeira and T. J. Sluckin, *Physical Review E* **48**, 1265–1271 (1993).

9. 'Phase diagram and critical behaviour of the ferromagnetic Heisenberg fluid from density-functional theory'. J. M. Tavares, M. M. Telo da Gama, P. I. C. Teixeira, J. J. Weis and M. J. P. Nijmeijer, *Physical Review E* **52**, 1915–1929 (1995). Erratum: *Physical Review E* **52**, 5716–5716 (1995).

10. 'A model nematic liquid crystal revisited: some new phase diagrams from density-functional theory'. P. I. C. Teixeira and M. M. Telo da Gama, *Molecular Physics* **86**, 1537–1543 (1995).

11. 'Cell dynamics model of droplet formation in polymer-dispersed liquid crystals'. P. I. C. Teixeira and B. M. Mulder, *Physical Review E* **53**, 1805–1815 (1996).

12. 'Structure of strongly dipolar fluids at low densities'. M. A. Osipov, P. I. C. Teixeira and M. M. Telo da Gama, *Physical Review E* **54**, 2597–2609 (1996).

13. 'Numerical simulation of thermally-induced phase separation in polymer-dispersed liquid crystals'. P. I. C. Teixeira and B. M. Mulder, *Journal of Chemical Physics* **105**, 10145–10152 (1996).

14. 'Structure of a nematic liquid crystal between aligning walls'. P. I. C. Teixeira, *Physical Review E* **55**, 2876–2881 (1997).

15. 'Comment on "Study of phase-separation dynamics by use of cell dynamical systems. I. Modeling" '. P. I. C. Teixeira and B. M. Mulder, *Physical Review E* **55**, 3789–3791 (1997).

16. 'Density-functional approach to the theory of dipolar fluids'. M. A. Osipov, P. I. C. Teixeira and M. M. Telo da Gama, *Journal of Physics A: Mathematical and General* **30**, 1953–1965 (1997).

17. 'Non-spherical molecules with spherical square wells revisited: some possible new phase diagrams from density-functional theory'. P. I. C. Teixeira, *Molecular Physics* **92**, 167–172 (1997).

18. 'Simulation study of polymer chain geometry in a one-dimensional periodic potential' D. J. Goulding and P. I. C. Teixeira, *Journal of Chemical Physics* **107**, 7530–7536 (1997).

19. 'Phase diagrams of aligned dipolar hard rods'. P. I. C. Teixeira, M. A. Osipov and M. M. Telo da Gama, *Physical Review E* **57**, 1752–1760 (1998).

20. 'Field-induced winding of chiral polymers'. P. I. C. Teixeira and E. M. Terentjev, *European Physical Journal B* **3**, 237–245 (1998).

21. 'Stability of the order-order critical points of Heisenberg and nematic model fluids'. J. M. Tavares, P. I. C. Teixeira and M. M. Telo da Gama, *Physical Review E* **58**, 3175–3186 (1998).

22. 'An old model for magnetic nematics'. P. I. C. Teixeira, *Liquid Crystals* **25**, 721–726 (1998).

23. 'Biaxial nematic order in the hard-boomerang fluid'. P. I. C. Teixeira, A. J. Masters and B. M. Mulder, *Molecular Crystals and Liquid Crystals* **323**, 167–189 (1998).

24. 'Comment on "Gas-liquid coexistence and demixing in systems with highly directional pair potentials" '. P. I. C. Teixeira, *Physical Review E* **59**, 1280–1282 (1999).

25. 'A thermotropic nematic of slightly non-spherical molecules: Generalised Van der Waals theory'. P. I. C. Teixeira, *Molecular Physics* **96**, 805–811 (1999).

26. 'Kinetic stabilisation of the polar smectic-A phase of cyclic siloxane oligomers'. P. I. C. Teixeira and E. M. Terentjev, *Europhysics Letters* **46**, 364–368 (1999).

27. 'Dynamics of reorientation of a constrained nematic elastomer'. P. I. C. Teixeira, *European Physical Journal B* **9**, 471–477 (1999).

28. 'Dynamics of soft and semi-soft nematic elastomers'. P. I. C. Teixeira and M. Warner, *Physical Review E* **60**, 603–609 (1999).

29. 'Reorientation dynamics of a nematic elastomer'. P. I. C. Teixeira, *Molecular Crystals and Liquid Crystals* **330**, 1579–1586 (1999).

30. 'De-mixing instability in polymer blends undergoing polycondensation reactions'. P. I. C. Teixeira, D. J. Read and T. C. B. McLeish, *Macromolecules* **33**, 3871–3878 (2000).

31. 'The effect of dipolar forces on the structure and thermodynamics of classical fluids'. P. I. C. Teixeira, J. M. Tavares and M. M. Telo da Gama, *Journal of Physics: Condensed Matter* **12**, R411–R434 (2000).

32. 'Cell dynamics simulations of shear-induced alignment and defect annihilation in stripe patterns formed by block copolymers'. S. R. Ren, I. W. Hamley P. I. C. Teixeira and P. D. Olmsted, *Physical Review E* **63**, 041503 (2001).

33. 'Discontinuous structural transition in a thin hybrid liquid crystal film'. D. J. Cleaver and P. I. C. Teixeira, *Chemical Physics Letters* **338**, 1–6 (2001).

34. 'Density-functional theory of a Gay-Berne film between aligning walls'. P. I. C. Teixeira, A. Chrzanowska, G. D. Wall and D. J. Cleaver, *Molecular Physics* **99**, 889–897 (2001).

35. 'Ordering of hard particles between hard walls'. A. Chrzanowska, P. I. C. Teixeira, H. Ehrentraut and D. J. Cleaver, *Journal of Physics: Condensed Matter* **13**, 4715–4726 (2001).

36. 'Asymmetric landscapes of early spinodal decomposition'. Y. Mao, T. C. B. McLeish, P. I. C. Teixeira and D. J. Read, *European Physical Journal E* **6**, 69–77 (2001).

37. 'Minimum-perimeter partitions of the plane into equal numbers of regions of two different areas'. M. A. Fortes and P. I. C. Teixeira, *European Physical Journal E* **6**, 133–137 (2001).

38. 'Independent variables in foam clusters'. M. A. Fortes and P. I. C. Teixeira, *European Physical Journal E* **6**, 255–258 (2001).

39. 'Periodic chain clusters of two-dimensional bubbles'. P. I. C. Teixeira and M. A. Fortes, *Journal of Physics: Condensed Matter* **14**, 5719–5730 (2002).

40. 'Theoretical and finite-element investigation of the mechanical response of spinodal structures'. D. J. Read, P. I. C. Teixeira, R. A. Duckett, J. Sweeney and T. C. B. McLeish, *European Physical Journal E* **8**, 15–31 (2002).

41. 'Orientation and association at the liquid-vapour interface of dipolar fluids'. P. I. C. Teixeira and M. M. Telo da Gama, *Journal of Physics: Condensed Matter* **14**, 12159–12165 (2002).

42. 'Distribution of film orientations in free and strained bubble clusters'. M. A. Fortes, P. I. C. Teixeira and M. F. Vaz, *Physical Review Letters* **89**, 278302 (2002). A link to this article appeared in *Virtual Journal of Biological Physics Research* **5**, 1 January 2003 issue. Erratum: *Physical Review Letters* **94**, 109902(E) (2005).

43. 'Mixing and sorting of bidisperse two-dimensional bubbles'. P. I. C. Teixeira, F. Graner and M. A. Fortes, *European Physical Journal E* **9**, 161–169 (2002).

44. 'Lower bounds to the surface energy of a two-dimensional foam'. P. I. C. Teixeira, F. Graner and M. A. Fortes, *European Physical Journal E* **9**, 447–452 (2002).

45. 'Deposition of magnetic particles: a computer simulation study'. F. de los Santos, M. Tasinkevych, J. M. Tavares and P. I. C. Teixeira, *Journal of Physics: Condensed Matter* **15**, S1291–S1304 (2003).

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36. 'The shapes of soap films and Plateau borders'. M. A. Fortes, P. I. C. Teixeira and A. M. Deus, International Soft Matter Conference 2007, Aachen, Germany, October 2007 (poster).

37. 'Modelling of nano-confined liquid crystals: ordering and ordering transitions from density-functional theory'. P. I. C. Teixeira, International Workshop on Recent Advances in the Understanding of Confined Fluids: from Superfluids to Oil Reservoirs. Abingdon, United Kingdom, January 2008 (talk).

38. 'Liquid crystal spinning of cellulose nanofibers'. M. H. Godinho, J. Canejo, J. P. Borges, P. Brogueira, P. I. C. Teixeira and E. M. Terentjev, Advanced Nano-Materials 2008, Aveiro, Portugal, June 2008 (poster).

39. 'Simulation and theory of hybrid aligned liquid crystal films'. P. I. C. Teixeira, F. Barmes, C. Anquetil-Deck and D. J. Cleaver, 7th Liquid Matter Conference, Lund, Sweden, June/July 2008 (poster).

40. 'How foam-like is the shear-induced lamellar phase of an ionic liquid crystal?'. C. Cruz, M. H. Godinho, A. J. Ferreira, P. S. Kulkarni, C. A. M. Afonso and P. I. C. Teixeira,. 22nd International Liquid Crystal Conference, Jeju, Korea, June/July 2008 (poster); and European/Japanese Molecular Liquids Group Conference 2008, Lisbon, Portugal, September 2008 (talk).

41. 'Effect of the number of shells on the pressure and energy of two-dimensional free bubble clusters'. M. F. Vaz, P. I. C. Teixeira, F. Graner and S. J. Cox, Eufoam 2008, Noordwijk, The Netherlands, July 2008 (poster).

42. 'Micro- and nanostructures from liquid crystalline cellulose materials'. M. H. Godinho, J. P. Canejo, L. F. V. Pinto, J. P. Borges, P. Brogueira and P. I. C. Teixeira, NanoSWEC, First edition of the Nano South-West European Conference, Bordeaux (ENSCPB), France, November 2008 (talk).

43. 'How patchy can one get and still condense? The role of dissimilar patches in the interactions of colloidal particles'. J. M. Tavares, P. I. C. Teixeira and M. M. Telo da Gama, Biological and Soft Matter Conference, Warwick, United Kingdom, April 2009 (poster); and Flow(ers) and Jam(mers) Workshop, Lisbon, Portugal, June 2009 (talk).

44. 'Spirals and helices of liquid crystalline cellulose derivatives: electrospinning mimics plant tendrils on the nano and microscale'. M. H. Godinho, J. P. Canejo, L. F. V. Pinto, J. P. Borges and P. I. Teixeira, Biological and Soft Matter Conference, Warwick, United Kingdom, April 2009 (poster).

45. 'Shear-induced lamellar ionic liquid crystal foam'. A. J. Ferreira, P. I. C. Teixeira, C. Cruz, M. H. Godinho, P. S. Kulkarni and C. A. M. Afonso, Biological and Soft Matter Conference, Warwick, United Kingdom, April 2009 (poster); and 10th European Conference on Liquid Crystals, Colmar, France, April 2009 (poster).

46. 'A neural network approach to modelling a confined liquid crystal'. T. Santos Silva, P. I. Teixeira, C. Anquetil-Deck and D. J. Cleaver, Biological and Soft Matter Conference, Warwick, United Kingdom, April 2009 (poster).

47. 'Cellulose spirals and helices'. M. H. Godinho. J. P. Canejo, J. P. Borges and P. I. Teixeira, Flow(ers) and Jam(mers) Workshop, Lisbon, Portugal, June 2009 (talk).

48. 'Criticality of colloids with distinct interaction patches'. J. M. Tavares, M. M. Telo da Gama and P. I. C. Teixeira, CECAM Workshop on Computer Simulation Approaches to Study Self-Assembly: From Patchy Nano-Colloids to Virus Capsids, Lausanne, Switzerland, July 2009 (poster).

49. 'Defects in bubble clusters: simulation and analytical approach '. M. F. Vaz, S. J. Cox and P. I. C. Teixeira, Eufoam 2010, Borovets, Bulgaria, June 2010 (talk).

50. 'A neural network approach to modelling a confined liquid crystal', T. Santos Silva, P. I. C. Teixeira, C. Anquetil-Deck and D. J. Cleaver, 23rd International Liquid Crystal Conference, Cracow, Poland, July 2010 (poster).

51. 'Self-assembly, percolation and thermodynamics of patchy particles with dissimilar bonds'. J. M. Tavares, M. M. Telo da Gama and P. I. C. Teixeira, International Soft Matter Conference 2010, Granada, Spain, July 2010 (poster).

52. 'How patchy can one get and still condense? Criticality and percolation of colloids with dissimilar patches'. J. M. Tavares, P. I. C. Teixeira and M. M. Telo da Gama, Staphys 24, Cairns, Australia, July 2010 (talk).

53. 'Wrinkling Labyrinth Patterns on Elastomeric Janus Particles'. A. C. Trindade, J. P. Canejo, L. F. V. Pinto, P. Patrcio, P. Brogueira, P. I. C. Teixeira and M. H. Godinho, 8th Liquid Matter Conference, Vienna, Austria, September 2011 (poster); 6th International Liquid Crystal Elastomer Conference, Lisbon, Portugal, September 2011 (talk); and Workshop on Assembling of Superstructures in Soft Matter, Ljubljana, Slovenia, October 2012 (talk).

54. 'A dissimilar patch model with a "pinched"' phase diagram'. J. Russo, J. M. Tavares, P. I. C. Teixeira, M. M. Telo da Gama and F. Sciortino, 8th Liquid Matter Conference, Vienna, Austria, September 2011 (talk).

55. 'Surface energy of two-dimensional finite or periodic foams'. M. F. Vaz and P. I. C. Teixeira, Workshop on Isoperimetric Problems, space-filling, and soap-bubble geometry International Centre for Mathematical Sciences, Edinburgh, United Kingdom, March 2012 (talk).

56. 'Inhomogeneous associating fluids - the liquid/vapour interface of patchy colloids'. A. Oleksy and P. I. C. Teixeira, Workshop on Wetting and Capillarity in Complex Systems, Dresden, Germany, February 2013 (poster);

57. 'The phase behaviour of shape-changing spheroids'. P. I. C. Teixeira and A. J. Masters, BLCS/SMTG/INI Workshop on the Molecular Modelling and Theory of Liquid Crystals, Cambridge, United Kingdom, March 2013 (talk); and British Liquid Crystal Society 27th Annual Conference, Cambridge, United Kingdom, March 2013 (poster).

58. 'First curl, then wrinkle'. A. C. Trindade, J. P. Canejo, P. I. C. Teixeira, P. Patrício and M. H. Godinho, Thermodynamics 2013, Manchester, United Kingdom, September 2013 (poster); and 9th Liquid Matter Conference, Lisbon, Portugal, July 2014 (poster).

59. 'Inhomogeneous associating fluids – patchy colloids at interfaces'. A. Oleksy and P. I. C. Teixeira, International Soft Matter Conference 2013, Rome, Italy, September 2013 (poster); and CCP5 Annual Conference, Harper Adams University, United Kingdom, September 2014 (poster).

60. 'Curling and wrinkling in elastomeric Janus fibres'. A. C. Trindade, J. P. Canejo, P. I. C. Teixeira, P. Patrício and M. H. Godinho, 7th International Liquid Crystal Elastomer Conference, Shanghai, China, September 2013 (talk).

61. 'Approaches for surface tailoring: wrinkling labyrinth patterns on Janus elastomers'. A. C.Trindade, J. P. Canejo, P. I. C. Teixeira, P. Patrício and M. H. Godinho, 4th International Colloids Conference–Surface Design and Engineering, Madrid, Spain, June 2014 (talk).

62. 'Which way does a core-shell fibre wrinkle?'. P. Patrício, P. I. C. Teixeira, A. C. Trindade and M. H. Godinho, 9th Liquid Matter Conference, Lisbon, Portugal, July 2014 (poster).

63. 'Liquid-vapour interfaces of patchy colloids'. A. Oleksy and P. I. C. Teixeira, 6th Iberian Meeting on Colloids and Interfaces, Guimarães, Portugal, July 2015 (talk).

64. 'Order reconstruction in ultraconfinement, from density-functional theory'. P. I. C. Teixeira, 13th European Conference on Liquid Crystals, Manchester, United Kingdom, September 2015 (poster).

65. 'What is the shape of an air bubble on a liquid surface?' M. A. C. Teixeira, S. Arscott, S. J. Cox and P. I. C. Teixeira, Eufoam 2016, Dublin, Ireland, July 2016 (talk); and 4th International Soft Matter Conference, Grenoble, France, September 2016 (poster).

66. 'From wrinkly elastomers to Janus particles to Janus fibres'. A. C. Trindade, J. P. Canejo, P. Patrício, P. Brogueira, P. I. C. Teixeira and M. H. Godinho, The British Society of Rheology Midwinter Meeting 2016, Reading, United Kingdom, December 2016 (poster).

67. 'When is a surface foam-phobic?'. M. A. C. Teixeira, S. Arscott, S. J. Cox and P. I. C. Teixeira, 10th Liquid Matter Conference, Ljubljana, Slovenia, July 2017 (poster).

68. 'Emergence of two biaxial nematic phases in solutions of semi-flexible dimers'. A. Vaghela, P. I. C. Teixeira and E. M. Terentjev, 10th Liquid Matter Conference, Ljubljana, Slovenia, July 2017 (poster).

69. 'Interplay between self-assembly and condensation in models with asymmetric patches'. J. M. Tavares and P. I. C. Teixeira, 10th Liquid Matter Conference, Ljubljana, Slovenia, July

2017 (poster).

70. 'When is a surface foam-phobic or foam-philic?'. M. A. C. Teixeira, S. Arscott, S. J. Cox and P. I. C. Teixeira, Flowing Matter 2018, Lisbon, Portugal, February 2018 (talk and poster); and Eufoam 2018, Liège, Belgium, July 2018 (poster).

71. 'The shape of liquid bridges'. P. I. C. Teixeira and M. A. C. Teixeira, Condensed Matter Physics National Conference, Porto, Portugal, May 2019; and 707. WE-Heraeus Seminar *Wetting and Capillarity in Complex Systems*, Bad Honnef, Germany, November 2019 (poster).

72. 'The shapes of water'. M. A. C. Teixeira, S. Arscott, S. J. Cox and P. I. C. Teixeira, 707. WE-Heraeus Seminar *Wetting and Capillarity in Complex Systems*, Bad Honnef, Germany, November 2019 (talk).

73. 'Ordering of oblate hard particles between symmetric penetrable walls'.P. I. C. Teixeira, C. Anquetil-Deck and D. J. Cleaver, Física 2020, Lisbon, Portugal (online), September 2020); British Liquid Crystal Society 35th Annual Conference, Aberdeen, United Kingdom (online), June 2021 (poster); and 11th Liquid Matter Conference, Prague, Czech Republic (online), July 2021 (poster).

74. 'Ordering of oblate hard particles between hybrid penetrable walls'. C. Anquetil-Deck, D. J. Cleaver and P. I. C. Teixeira, Física 2020, Lisbon, Portugal, September 2020; British Liquid Crystal Society 35th Annual Conference, Aberdeen, United Kingdom (online), June 2021 (poster); and 11th Liquid Matter Conference, Prague, Czech Republic (online), July 2021 (poster).

75. 'Theory and simulation of liquid crystal sandwiches'. P. I. C. Teixeira, C. Anquetil-Deck and D. J. Cleaver, SIAM Conference on Mathematical Aspects of Materials Science (MS21), Bilbao, Spain (online), May 2021 (talk).

76. 'Patchy particles at a hard wall: orientation-dependent bonding'. P. I. C. Teixeira and F. Sciortino, 11th Liquid Matter Conference, Prague, Czech Republic (online), July 2021 (poster); and Designed Assembly of Colloids at Interfaces – Fundamentals to Applications, online, June 2021 (talk).

77. 'Dynamics of two-dimenskional liquid bridges'. R. C. V. Coelho, L. A. R. G. Cordeiro, R. B. Gazola and P. I. C. Teixeira, Eufoam 2022, Cracow, Poland, July 2022 (talk); CECAM workshop on Challenges and opportunities in non-equilibrium soft matter, Mont Sant Benet, Spain, September 2023 (poster).

78. 'Flattening a different curve: can we eliminate the adsorption of a liquid crystal at a solid substrate?' C. Anquetil-Deck and P. I. C. Teixeira, 28th International Liquid Crystal Conference, Lisbon, Portugal, July 2022 (poster).

79. 'Dynamics of liquid bridges between patterned surfaces'. M. S. Rodrigues, R. C. V. Coelho and P. I, C. Teixeira. American Physical Society March Meeting, Minneapolis, USA, March 2024 (talk).

Dissertations

1. *Teoria para as propriedades interfaciais de fluidos puros e misturas com interacções multipolares* (*Theory for the interfacial properties of pure and mixed multipolar fluids*). P. I. C. Teixeira, MSc Thesis, University of Lisbon, Lisbon, Portugal, 1990.

2. *Statistical mechanical theories of the anchoring transition and related phenomena in liquid crystals*. P. I. C. Teixeira, PhD Thesis, University of Southampton, Southampton, United Kingdom, 1993.

Lecture notes

1. *Mecânica dos Meios Contínuos* (*Continuum Mechanics*). P. I. C. Teixeira and M. Barata Marques, School of Engineering, Catholic University of Portugal, 100 pp. (2006).

2. *Mecânica Geral* (*Fundamentals of Mechanics*). P. I. C. Teixeira and A. J. Silvestre, Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal, 208 pp. (2009–2013).

3. *Electromagnetismo e Óptica* (*Electromagnetism and Optics*). A. J. Silvestre and P. I. C. Teixeira, Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal, 269 pp. (2010–present).
4. *Electromagnetismo e Espectroscopia* (*Electromagnetism and Spectroscopy*). A. J. Silvestre and P. I. C. Teixeira, Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal, 271 pp. (2018–present).
5. *Física da Deformação e Escoamento* (*Physics of Deformation and Flow*). P. I. C. Teixeira, Lisbon Engineering School, Polytechnic Institute of Lisbon, Portugal, 251 pp. (2024–present).