Lorenzo Rovigatti

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Date of birth: December 17, 1985
Place of birth: Rome, Italy
Citizenship: Italian
My profile on scientific databases: Scopus, ResearcherID, Google Scholar
Number of published items: 56 refereed papers + 2 book chapters
H-index (Scopus, 09/09/2021): 24
Total citations (Scopus, 09/09/2021): 1582

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Dipartimento di Fisica
Sapienza Università di Roma
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Education and Career

Sep 2021 – today	**Associate Professor**, *Sapienza Università di Roma*.
Sep 2018 – Aug 2021	**Rita Levi Montalcini fellow, tenure-track researcher (RTDB)**, *Sapienza Università di Roma*.
May 2017 – Aug 2018	**Non-tenure researcher (RTDA)**, *CNR–ISC*, with Dr. E. Zaccarelli.
Apr 2016 – Apr 2017	**Marie Skłodowska-Curie Individual Fellow**, *University of Oxford*, with Prof. A. Louis.
Mar 2016	**Post-doctoral fellow**, *University of Vienna*, with Prof. C. Likos.
Mar 2014 – Feb 2016	**Lise Meitner fellow**, *University of Vienna*, with Prof. C. Likos.
Dec 2012 – Feb 2014	**Post-doctoral fellow**, *Sapienza Università di Roma*, with Prof. F. Sciortino.
Nov 2009 – Dic 2012	**Dottorato di Ricerca (Ph.D.) in Materials Science**, *Sapienza Università di Roma*, under the supervision of Prof. F. Sciortino.
Apr – May 2012	**HPC-Europa visitor**, *University of Edinburgh*, with Dr. P. J. Camp.
Jun 2011	**Visiting scientist**, *University of Oxford*, with Prof. J. P. K. Doye.
Oct 2007 – Oct 2009	**Laurea Specialistica (Master Degree) in Physics**, *Sapienza Università di Roma*, *110/110 cum laude*.
Mar – May 2009	**Visiting scientist**, *University of Montpellier 2*, with Prof. W. Kob.
Oct 2004 – Oct 2007	**Laurea Triennale (Bachelor Degree) in Physics**, *Sapienza Università di Roma*, *110/110 cum laude*.

Fellowships, Grants & Awards

2020	**Italian Scientific Qualification (Abilitazione Scientifica Nazionale)**, *as Full Professor in Theoretical Condensed Matter Physics*.
2019	**"Alfredo di Braccio" Prize**, *awarded by Accademia dei Lincei*.
2018	**Rita Levi Montalcini Fellowship**, *(211,173.66 €)*.
2017	**Italian Scientific Qualification (Abilitazione Scientifica Nazionale)**, *as Associate Professor in Theoretical Condensed Matter Physics*.
2016	**"Marie Skłodowska-Curie" Individual Fellowship**, *(183,454.80 €)*.

2016 **"Young Investigator Training Program" Award**, *ECIS 2016*.

2016 **ESG-Nano-Prize 2016**, *Erwin Schrödinger Symposium*.

2014 **"Lise Meitner" Fellowship**, *(144,420.00 €)*.

2012 **HPC-Europa 2 Fellowship**.

Student Supervisions and Co-supervisions

2019 **Marco Spinaci, Master candidate**, *Dipartimento di Fisica, Sapienza Università di Roma*.

2017 **Mariarita Paciolla, Master candidate**, *Dipartimento di Fisica, Sapienza Università di Roma*, with Dr. E. Zaccarelli and Dr. N. Gnan.

2016 – 2018 **Ferdinando Randisi, Ph.D. student**, *Rudolph Peierls Centre for Theoretical Physics, Oxford University*, with Prof. A. Louis.

2016 **Michele Fava, Summer intern**, *Rudolph Peierls Centre for Theoretical Physics, Oxford University*, with Prof. A. Louis.

2015 **Maud Formanek, Master candidate**, *Faculty of Physics, University of Vienna*, with Prof. C. N. Likos.

2014 **Manfredo di Porcia, Master candidate**, *Dipartimento di Fisica, Sapienza Università di Roma*, with Prof. F. Sciortino.

2012 – 2016 **Sofia Biagi, Ph.D. student**, *Dipartimento di Fisica, Sapienza Università di Roma*, with Prof. F. Sciortino.

2012 **Simone Dussi, Master candidate**, *Dipartimento di Fisica, Sapienza Università di Roma*, with Prof. F. Sciortino.

Teaching activity

2018 - today **Titolare del corso "Fisica 2" per Chimici Industriali (9 CFU)**, *Sapienza Università di Roma*.

2019 - today **Co-docente del corso "Laboratorio di Calcolo" per Fisici (3 CFU)**, *Sapienza Università di Roma*.

Research interests

- Structure, dynamics and elastic properties of polymer-based materials.
- Hierarchical self-assembly in polymer- and DNA-based materials.
- Self-assembly in colloidal systems.
- Phase behaviour and dynamics of patchy particles and dipolar fluids.

Talks (invited talks are marked with a *)

2020 ***Designer protein assemblies with tunable phase diagrams in living cells**, *Workshop on Molecular Dynamics and its Applications to Biological Systems (invited talk)*, ICTP/Sissa - Italy (online webinar).

The effect of chain polydispersity and chain preparation state on the elasticity of disordered polymer networks, *Italian Soft Days*, Bari University - Italy (online webinar).

2019 ***A perspective on oxDNA**, *OxDNA users and developers workshop (invited talk)*, Oxford - UK.

*__Elastic Properties and Effective Interactions of In Silico Realistic Polymer Networks__, *Invited talk at University of Vienna*, Vienna - Austria.

*__Elastic Properties and Effective Interactions of In Silico Realistic Polymer Networks__, *Invited talk at the Wageningen University & Research*, Wageningen - The Netherlands.

Elastic Properties and Effective Interactions of In Silico Realistic Microgels, *2019 MRS Spring Meeting*, Phoenix – USA.

2018 **Elastic properties and effective interactions of in silico realistic microgels**, *9th International Conference on Multiscale Materials Modeling*, Osaka – Japan.

*__The importance of softness and deformability, from DNA origami to microgels__, *Computational biophysics on your desktop: is that possible? (invited talk)*, Trento – Italy.

Elastic properties and effective interactions of in silico realistic microgels, *Multiscale Materials Modeling*, Osaka – Japan.

Computer-generated realistic microgels, *Soft Matter Forefronts*, Atlanta – USA.

*__*In silico* modelling of microgels__, *Invited talk at the CMF*, San Sebastian – Spain.

2017 **Computer-generated realistic microgels**, *EMLG/JMLG Meeting*, Vienna – Austria.

*__Beyond patchy colloids: patchy models at the atomic and molecular scale__, *"Self-assembly: theory and simulations" workshop at SISSA (invited talk)*, Trieste – Italy.

*__Hierarchical self-assembly of DNA nanostars: from theory to experiment__, *"Fluids and Materials seminars" at the Department of Applied Mathematics (invited talk)*, Bristol – United Kingdom.

*__Hierarchical self-assembly made easy: DNA nanostars as a new class of model systems for complex fluids__, *Soft Matter, Biomaterials and Interfaces seminar series (invited talk)*, Oxford – United Kingdom.

*__Hierarchical self-assembly made easy: DNA nanostars as a new class of model systems for complex fluids__, *Invited talk at the MPIPKS*, Dresden – Germany.

2016 **Bottom-Up Colloidal Crystal Assembly with a Twist**, *ECIS 2016*, Rome – Italy.

Soft self-assembled nanoparticles with temperature-dependent properties, *Italian Soft Days*, Milan – Italy.

2015 **Soft self-assembled nanoparticles with temperature-dependent properties**, *FisMat 2015*, Palermo – Italy.

Soft self-assembled nanoparticles with temperature-dependent properties, *101° Congresso SIF*, Rome – Italy.

*__Tetravalent DNA Nanostars as Valence-limited Building Blocks__, *Invited talk at the IIT*, Genova – Italy.

2014 **Tetravalent DNA Constructs as Valence-limited Soft Building Blocks**, *Mini Workshop in Molecular and Statistical Biophysics at SISSA*, Trieste – Italy.

*__Dipolar hard spheres at low temperature and density: structure, thermodynamics and magnetic properties__, *Invited talk*, Montpellier – France.

__Gels of DNA nanostars never crystallise__, *Italian Soft Days*, Rome – Italy.

__Investigating the Phase Behaviour of Valence-limited DNA Constructs on GPUs__, *Perspective of GPU Computing in Physics and Astrophysics*, Rome – Italy.

*__Closing the loop: a single-component system with two critical points__, *Central European Statistical Mechanics Mini-Meeting (invited talk)*, Budapest – Hungary.

2013 *__Tetravalent DNA Constructs as Valence-limited, Patchy-like Building Blocks__, *DNA-based self-assembly: theory, simulations and experiments, CECAM workshop (invited talk)*, Vienna – Austria.

__Branching in the low-temperature dipolar hard sphere fluid__, *International Soft Matter Conference*, Roma – Italy.

2012 *__A coarse-grained DNA model: sequence dependence and some applications__, *DNA in a material world (invited talk)*, Roma – Italy.

2011 __The phase diagram of dipolar hard spheres: a new look__, *SoftComp Annual Meeting*, Heraklion – Crete.

Papers

2021 __Gel Formation in Reversibly Cross-Linking Polymers__, *by M. Formanek, L. Rovigatti, E. Zaccarelli, F. Sciortino and A. J. Moreno*, *Macromolecules*, **54**, (2021) p. 6613.

__OxDNA.org: A public webserver for coarse-grained simulations of DNA and RNA nanostructures__, *by E. Poppleton, R. Romero, A. Mallaya, L. Rovigatti and P. Šulc*, *Nucleic Acid Research*, **49**, (2021) p. W491.

__A Primer on the oxDNA Model of DNA: When to Use it, How to Simulate it and How to Interpret the Results__, *by A. Sengar, T. E. Ouldridge, O. Henrich, L. Rovigatti and P. Šulc*, *Frontiers in Molecular Biosciences*, **8**, (2021) p. 693710.

__Effect of Chain Polydispersity on the Elasticity of Disordered Polymer Networks__, *by V. Sorichetti, A. Ninarello, J. M. Ruiz-Franco, V. Hugovieux, W. Kob, E. Zaccarelli and L. Rovigatti*, *Macromolecules*, **54**, (2021) p. 3769.

__Effect of Internal Architecture on the Assembly of Soft Particles at Fluid Interfaces__, *by J. Vialetto, F. Camerin, F. Grillo, S. N. Ramakrishna, L. Rovigatti, E. Zaccarelli and L. Isa*, *ACS Nano*, **15**, (2021) p. 13105.

2020 __Designer protein assemblies with tunable phase diagrams in living cells__, *by M. Heidenreich, J. Georgeson, E. Locatelli, L. Rovigatti, S. K. Nandi, A. Steinberg, Y. Nadav, E. Shimoni, S. A. Safran, J. P. K. Doye, E. D. Levy*, *Nature Chem. Biol.*, **16**, (2020) p. 939.

__Designer protein assemblies with tunable phase diagrams in living cells__, *by F. Camerin, N. Gnan, J. Ruiz-Franco, A. Ninarello, L. Rovigatti, E. Zaccarelli*, *Phys. Rev. X*, **10**, (2020) p. 031012.

__Shape control of soft patchy nanoparticles under confinement__, *by I. E. Ventura-Rosales, L. Rovigatti, E. Bianchi, C. N. Likos, E. Locatelli*, *Nanoscale*, , (2020).

Charge affinity and solvent effects in numerical simulations of ionic microgels, *by G. Del Monte, F. Camerin, A. Ninarello, N. Gnan, L. Rovigatti, E. Zaccarelli, J. Phys.: Condens. Matter*, , (2020).

2019 **TacoxDNA: A user-friendly web server for simulations of complex DNA structures, from single strands to origami**, *by A. Suma, E., Poppleton, M., Matthies, P., Šulc, F., Romano, A. A. Louis, J. P. K. Doye, C., Micheletti, L. Rovigatti, Macromolecules*, **52**, (2019) p. 7584.

Modeling Microgels with a Controlled Structure across the Volume Phase Transition, *by A. Ninarello, J. J. Crassous, D. Paloli, F. Camerin, N. Gnan, L. Rovigatti, P. Schurtenberger, N., Zaccarelli, Macromolecules*, **52**, (2019) p. 7584.

Numerical insights on ionic microgels: structure and swelling behaviour, *by G. Del Monte, A. Ninarello, F. Camerin, L. Rovigatti, N. Gnan, E. Zaccarelli, Soft Matter*, **15**, (2019) p. 8113.

Connecting Elasticity and Effective Interactions of Neutral Microgels: The Validity of the Hertzian Model, *by L. Rovigatti, N. Gnan, A. Ninarello, E. Zaccarelli, Macromolecules*, **52**, (2019) p. 4895.

q**-Independent Slow Dynamics in Atomic and Molecular Systems**, *by P. H. Handle, L. Rovigatti, F. Sciortino, Phys. Rev. Lett.*, **122**, (2019) p. 175501.

Microgels Adsorbed at Liquid–Liquid Interfaces: A Joint Numerical and Experimental Study, *by F. Camerin, M. Á. Fernández-Rodríguez, L. Rovigatti, M.-N. Antonopoulou, N. Gnan, A. Ninarello, L. Isa, E. Zaccarelli, ACS Nano*, **13** (2019) p. 4548.

Numerical modelling of non-ionic microgels: an overview, *by L. Rovigatti, N. Gnan, L. Tavagnacco, J. A. Moreno, E. Zaccarelli, Soft Matter*, **15**, (2019) p. 1108.

2018 **A new look at effective interactions between microgel particles**, *by M. J. Bergman, N. Gnan, M. Obiols-Rabasa, J.-M. Meijer, L. Rovigatti, E. Zaccarelli, P. Schurtenberger, Nat. Commun.*, **9**, (2018) p. 5039.

How to Simulate Patchy Particles, *by L. Rovigatti, J. Russo and F. Romano, Eur. Phys. J. E*, **41**, (2018) p. 59.

Modelling realistic microgels in an explicit solvent, *by F. Camerin, N. Gnan, L. Rovigatti and E. Zaccarelli, Sci. Rep.*, **8**, (2018) p. 14426.

Force-Induced Unravelling of DNA Origami, *by M. C. Engel, D. M. Smith, M. A. Jobst, M. Sajfutdinow, T. Liedl, F. Romano, L. Rovigatti, A. A. Louis, J. P. K. Doye, ACS Nano*, **12**, (2018) p. 6734.

On the effect of the thermostat in non-equilibrium molecular dynamics simulations, *by J. Ruiz-Franco, L. Rovigatti, E. Zaccarelli, Eur. Phys. J. E*, **41**, (2018) p. 80.

An Accurate Estimate of the Free Energy and Phase Diagram of All-DNA Bulk Fluids, *by E. Locatelli and L. Rovigatti, Polymers*, **10**, (2018) p. 447.

Self-Dynamics and Collective Swap-Driven Dynamics in a Particle Model for Vitrimers, *by L. Rovigatti, G. Nava, T. Bellini and F. Sciortino, Macromolecules*, **51**, (2018) p. 1232.

Internal structure and swelling behaviour of in silico microgel particles, *by L. Rovigatti, N. Gnan and E. Zaccarelli, J. Phys.: Condens. Matter*, **30**, (2018) p. 044001.

2017 **In Silico Synthesis of Microgel Particles**, *by N. Gnan, L. Rovigatti, M. Bergman and E. Zaccarelli, Macromolecules*, **50**, (2017) p. 8777.

Free energy calculations for rings and chains formed by dipolar hard spheres, *by M. Ronti, L. Rovigatti, J. M. Tavares, A. O. Ivanov, S. S. Kantorovich and F. Sciortino, Soft Matter*, **13**, (2017) p. 7870.

Void-Based Assembly of Colloidal Crystals, *by N. Mahynski, L. Rovigatti, C. N. Likos and A. Z. Panagiotopoulos, G.I.T. Laboratory Journal*, **5-6**, (2017) p. 32.

Limiting the valence: advancements and new perspectives on patchy colloids, soft functionalized nanoparticles and biomolecules, *by E. Bianchi, B. Capone, I. Coluzza, L. Rovigatti and P. D. J. van Oostrum, Phys. Chem. Chem. Phys.*, **19**, (2017) p. 19847.

The role of directional interactions in the designability of generalized heteropolymers, *by C. Cardelli, V. Bianco, L. Rovigatti, F. Nerattini, L. Tubiana, C. Dellago and I. Coluzza, Sci. Rep.*, **7**, (2017) p. 4986.

Hierarchical self-organization of soft patchy nanoparticles into morphologically diverse aggregates, *by I. C. Gârlea, E. Bianchi, B. Capone, L. Rovigatti and C. N. Likos, Curr. Opin. Colloid Interface Sci.*, **30**, (2017) p. 1.

Condensation and Demixing in Solutions of DNA Nanostars and Their Mixtures, *by E. Locatelli, P. H. Handle, C. N. Likos, F. Sciortino and L. Rovigatti, ACS Nano*, **11**, (2017) p. 2094.

Re-entrant limits of stability of the liquid phase and the Speedy scenario in colloidal model systems, *by L. Rovigatti, V. Bianco, J. M. Tavares and F. Sciortino, J. Chem. Phys.*, **146**, (2017) p. 041103.

Connectivity, Dynamics, and Structure in a Tetrahedral Network Liquid, *by S. Roldán-Vargas, L. Rovigatti and F. Sciortino, Soft Matter*, **13**, (2017) p. 514.

2016 **Small-angle neutron scattering and molecular dynamics structural study of gelling DNA nanostars**, *by J. Fernandez-Castanon, F. Bomboi, L. Rovigatti, M. Zanatta, A. Paciaroni, L. Comez, L. Porcar, C. J. Jafta, G. C. Fadda, T. Bellini and F. Sciortino, J. Chem. Phys.*, **145**, (2016) p. 084910.

Bottom-Up Colloidal Crystal Assembly with a Twist, *by N. Mahynski, L. Rovigatti, C. N. Likos and A. Z. Panagiotopoulos, ACS Nano*, **10**, (2016) p. 5459.

Surface wave excitations and backflow effect over dense polymer brushes, *by S. Biagi, L. Rovigatti, F. Sciortino and C. Misbah, Scientific Reports*, **6**, (2016) p. 22257.

Direct Simulation of the Self-Assembly of a Small DNA Origami, *by B. E. K. Snodin, F. Romano, L. Rovigatti, T. E. Ouldridge, A. A. Louis and J. P. K. Doye, ACS Nano*, **10**, (2016) p. 1724.

Soft self-assembled nanoparticles with temperature-dependent properties, *by L. Rovigatti, B. Capone and C. N. Likos, Nanoscale*, **8**, (2016) p. 3288.

2015 **How soft repulsion enhances the depletion mechanism**, *by L. Rovigatti, N. Gnan, A. Parola and E. Zaccarelli*, *Soft Matter*, **11**, (2015) p. 692.

Temperature-induced structural transitions in self-assembling magnetic nanocolloids, *by S. S. Kantorovich, A. O. Ivanov, L. Rovigatti, J. M. Tavares, F. Sciortino*, *Phys. Chem. Chem. Phys.*, **17**, (2015) p. 16601.

Low temperature structural transitions in dipolar hard spheres: The influence on magnetic properties, *by S. S. Kantorovich, A. O. Ivanov, L. Rovigatti, J. M. Tavares, F. Sciortino*, *J. Magn. Magn. Mater.*, **383**, (2015) p. 272.

A comparison between parallelization approaches in molecular dynamics simulations on GPUs, *by L. Rovigatti, P. Šulc, I. Z. Reguly and F. Romano*, *J. Comput. Chem.*, **36**, (2015) p. 1.

2014 **Gels of DNA Nanostars Never Crystallize**, *by L. Rovigatti, F. Smallenburg, F. Romano and F. Sciortino*, *ACS Nano*, **8**, (2014) p. 3567.

Accurate phase diagram of tetravalent DNA nanostars, *by L. Rovigatti, F. Bomboi and F. Sciortino*, *J. Chem. Phys.*, **140**, (2014) p. 154903.

2013 **Coarse-graining DNA for simulations of DNA nanotechnology**, *by J. P. K. Doye, T. E. Ouldridge, A. A. Louis, F. Romano, P. Šulc, C. Matek, B. E. K. Snodin, L. Rovigatti, J. S. Schreck, R. M. Harrison and W. P. J. Smith*, *Phys. Chem. Chem. Phys.*, **15**, (2013), p. 20395.

Self-assembly in chains, rings and branches: a single component system with two critical points, *by L. Rovigatti, J. M. Tavares and F. Sciortino*, *Phys. Rev. Lett.*, **111**, (2013) p. 168302.

Branching points in the low-temperature dipolar hard sphere fluid, *by L. Rovigatti, S. Kantorovich, A. O. Ivanov, J. M. Tavares and F. Sciortino*, *J. Chem. Phys.*, **139**, (2013) p. 134901.

On the gas-liquid phase-separation and the self-assembly of charged soft dumbbells, *by S. Dussi, L. Rovigatti, F. Sciortino*, *Mol. Phys.*, **111**, (2013) p. 3608.

Nonmonotonic Magnetic Susceptibility of Dipolar Hard-Spheres at Low Temperature and Density, *by S. Kantorovich, A. O. Ivanov, L. Rovigatti, J. M. Tavares, F. Sciortino*, *Phys. Rev. Lett.*, **110**, (2013) p. 148306.

Computing the phase diagram of binary mixtures: A patchy particle case study, *by L. Rovigatti, D. de las Heras, J. M. Tavares, M. M. Telo da Gama, F. Sciortino*, *J. Chem. Phys.*, **138** (16), (2013) p. 164904.

2012 **Sequence-dependent thermodynamics of a coarse-grained DNA model**, *P. Šulc, F. Romano, T. E. Ouldridge, L. Rovigatti, A. A. Louis, and J. P. K. Doye*, *J. Chem. Phys.*, **137** (13), (2012) p. 135101.

Quantitative description of the self-assembly of patchy particles into chains and rings, *by J. M. Tavares, L. Rovigatti, and F. Sciortino*, *J. Chem. Phys.*, **137** (4), (2012) p. 044901.

Self-assembly of short DNA duplexes: from a coarse-grained model to experiments through a theoretical link, *by C. De Michele, L. Rovigatti, T. Bellini, and F. Sciortino*, *Soft Matter*, **8**, (2012) pp. 8388–8398.

Structural properties of the dipolar hard-sphere fluid at low temperatures and densities, *by L. Rovigatti, J. Russo, and F. Sciortino*, *Soft Matter*, **8**, (2012) pp. 6310–6319.

2011 **No Evidence of Gas-Liquid Coexistence in Dipolar Hard Spheres**, *by L. Rovigatti, J. Russo, and F. Sciortino*, *Phys. Rev. Lett.*, **107**, (2011) p. 237801.

Self and collective correlation functions in a gel of tetrahedral patchy particles, *by L. Rovigatti and F. Sciortino*, *Mol. Phys.*, **109** (23-24), (2011) pp. 2889–2896.

The vibrational density of states of a disordered gel model, *by L. Rovigatti, W. Kob, and F. Sciortino*, *J. Chem. Phys.*, **135** (10), (2011) p. 104502.

Book contributions

2017 **A Nucleotide-Level Computational Approach to DNA-Based Materials**, *by F. Romano and L. Rovigatti*, in **Design of Self-Assembling Materials**, edited by I. Coluzza, Cham (2017), ISBN: 978-3-319-71576-6.

2015 **Accurate Coarse-Grained Potentials for Soft Matter Systems**, *by R. Blaak, B. Capone, C. N. Likos and L. Rovigatti*, in **Computational Trends in Solvation and Transport in Liquids**, of the IAS Series **28**, edited by G. Sutmann, J. Grotendorst, G. Gompper and D. Marx. Forschungszentrum, Juelich (2015), ISBN: 978-3-95806-030-2.

Organised events

2016 **Local committee member and editor of the book of abstracts**, *ECIS 2016*, Rome – Italy.

2013 **Local committee member and editor of the book of abstracts**, *ISMC 2013*, Rome – Italy.

Institutional Responsibilities

2017 – 2018 **Member of the "ISC Committee for Research Project Management and Evaluation" (*Commissione ISC per la Valutazione e la Gestione dei Progetti di Ricerca*)**, *Institute of Complex Systems (CNR-ISC)*.

Editorial activities

Guest editor of the special issue on "Advances in Computational Methods for Soft Matter Systems" for *The European Physical Journal E*.

Languages

Italian (native), English (proficient) and German (elementary)

Other activities

Reviewer for *Nanoscale*, *Nature Communications*, *Physical Review Applied Letters*, *Physical Review B*, *Physical Review E*, *Physical Review Letters*, *Polymers*, *Soft Matter*, *The European Physical Journal E* and *The Journal of Chemical Physics*.

Lead developer of oxDNA, an open-source simulation package for coarse-grained simulations of DNA and RNA, and of cogli2, a tool for the visualisation and rendering of configurations of coarse-grained systems.