CURRICULUM VITAE - Alexander Schekochihin

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2019- 2014- 2008- 2008-14	University of Oxford, Department of Physics/Rudolf Peierls Centre for Theoretical Physics Head of Theoretical Astrophysics and Plasma Physics Group Professor of Theoretical Physics Fellow and Tutor in Physics, Merton College University Lecturer (Associate Professor) in Theoretical Astrophysics
2006-08	Imperial College London, Department of Physics Lecturer in Plasma Physics, RCUK Fellow & STFC Advanced Fellow
2005-07 2003-05	University of Cambridge, Department of Applied Mathematics & Theoretical Physics PPARC Advanced Fellow & Research Fellow of King's College UKAFF Fellow & Research Fellow of Wolfson College
2002-03	Imperial College London, Department of Physics Postdoctoral Research Associate (supervisor: S. C. Cowley)
2001	University of California, Los Angeles, Department of Physics and Astronomy Postdoctoral Fellow (supervisor: S. C. Cowley)
1997-2001 1995-1997	Princeton University PhD, Astrophysical Sciences (advisor: R. M. Kulsrud) MA, Astrophysical Sciences (advisor: J. A. Krommes)
1990-1995	Moscow Institute of Physics and Technology (ΜΦΤИ) BSc summa cum laude, Applied Mathematics and Physics

DISTINCTIONS, FELLOWSHIPS, etc.

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2022	Simons Investigator in Astrophysics
2019	J. Dawson Award for Excellence in Plasma Physics Research, American Physical Society
2019	Fellow of the Institute of Physics, UK
2019	C. Payne-Gaposchkin Medal and Prize for distinguished contributions to plasma, solar or
	space physics, Institute of Physics, UK
2018, 22	Professorial Merit Awards, University of Oxford
2018	Simons Visiting Professor, Niels Bohr International Academy, Copenhagen
2017	Visiting Professor, Imperial College London
2014	Member of the Royal Astronomical Society Club
2012	Fellow of the American Physical Society
2009	Professeur Invité, Université Pierre et Marie Curie (Paris VI)
2008, 10	Visiting Fellow, Isaac Newton Institute, Cambridge
2004	Fellow of the Royal Astronomical Society

PUBLICATIONS, METRICS, CONFERENCES

172 refereed articles (including 32 PRL/PRX, 15 Nature/Science/PNAS etc.; full list here) + 5 submitted 25 reports/proceedings/white papers

N > 15,200 citations, **h-index = 68**, $i_{10} = 159$, $i_{100} = 49$ (Google Scholar)

96 invited talks/lectures/reviews & 93 seminars/colloquia (selected list below)

(co-)organiser or member of SOC for 29 conferences/workshops (selected list below)

SERVICE (selected) Member of External Advisory Panel, Instituto de Plasmas e Fusão Nuclear, IST, Lisbon 2024-2024 Fellowship Committee, Division of Plasma Physics, American Physical Society 2021-Member of University Council, University of Oxford Chair of Examiners, MMathPhys/MScMTP degree, Oxford 2018-23 Editor-in-Chief (with W. Dorland till 2023), Journal of Plasma Physics (Cambridge U Press) 2013-2011-14 Member of Editorial Board, Reports on Progress in Physics (IoP) **DPhil/PhD STUDENTS** (20 supervised+9 informal co-supervisions/collaborations; *cont'd as postdocs) 2024-R. Dutta (co-adv. D. Kennedy), Oxford/UKAEA 2024-J. Edmiston (co-adv. D. A. Uzdensky & M. Fitzgerald), Oxford/UKAEA 2024-A. Wierzchucka (co-adv. D. A. Uzdensky), Oxford 2024 G. Celebre (adv. S. Servidio & F. Valentini), U of Calabria L.-P. Turica (co-adv. A. R. Field), Oxford/UKAEA 2022-Y. Zhang (co-adv. M. Barnes), Oxford/TE Ltd 2021-2021-W. Clarke (co-adv. M. Barnes & C. M. Roach), Oxford/UKAEA 2021-M. L. Nastac (co-adv. M. Barnes), Oxford 2020-24 **R. J. Ewart,** Oxford \rightarrow SCEECS Fellow, Princeton \mathcal{C} U Maryland T. G. Adkins, Oxford/UKAEA, EPS PhD Award → now postdoc, U Otago, NZ 2018-23*23 2018-22 D. N. Hosking (co-adv. S. A. Balbus), Oxford Astro, EPS PhD Award, IAU PhD Prize, RAS M. Penston Thesis Prize \rightarrow PCTS Fellow, Princeton & JRF, G&C Coll. Cambridge 2018-19*22 D. A. St-Onge (adv. M. W. Kunz), Princeton \rightarrow now at Vola Dynamics LLC, Canada 2016-21*24 P. G. Ivanov, Oxford/UKAEA, EPS PhD Award → postdoc, EPFL, Switzerland 2015-19 **A. F. A. Bott** (co-adv. G. Gregori), Oxford, EPS PhD Award → now UKRI FLF, Oxford **L. F. van Wyk** (co-adv. E. G. Highcock), Oxford/UKAEA → Bloomberg LP, London 2012-17 M. F. J. Fox (co-adv. A. R. Field), Oxford/UKAEA → now Sen. Teaching Fellow, Imperial 2012-17 2013-16 S. V. Komarov (adv. E. M. Churazov), MPA Garching → now at Machine Medicine Tech., London J. T. Parker (adv. P. J. Dellar), Oxford Maths \rightarrow STFC Sci. Comp. Dept, Rutherford Appleton Lab. 2010-16 2009-16 **G. J. Colyer,** Oxford/UKAEA \rightarrow now postdoc, AOPP, Oxford 2009-16 **A. Mallet**, Oxford Astro \rightarrow now Asst. Researcher, Space Science Laboratory, UC Berkeley A. V. Kanekar (adv. W. Dorland), U of Maryland → now at Protocol Labs, London 2009-15 2009-12 Y.-c. Ghim (co-adv. A. R. Field), Oxford/UKAEA \rightarrow now Assoc. Prof. (tenured), KAIST 2007-12*13 **I. G. Abel,** Oxford/UKAEA \rightarrow now Asst. Research Scientist, U Maryland 2007-12*16 **E. G. Highcock**, Oxford/UKAEA, EPS PhD Award → now at Power Factors, Sweden 2007-10 C. H. K. Chen (adv. T. S. Horbury), Imperial → now Reader, Queen Mary U London M. S. Rosin, Cambridge \rightarrow now Assoc. Prof., Pratt Institute, New York 2006-10 2008-09 G. G. Plunk (adv. S. C. Cowley), UCLA → now Staff Scientist, IPP, Greifswald 2005-09 A. H. Waelkens (adv. T. A. Enßlin), MPA Garching → now at Airbus, Munich 2002-05*09 N. F. Loureiro (adv. M. G. Haines), Imperial → now Prof. & Director of PSFC, MIT POSTDOCS, RESEARCH FELLOWS (incl. in co-supervision; not incl. former DPhil/PhD advisees) 2023-R. Greif (EPSRC; co-superv. M. Barnes) 2023-Y. B. Ginat (Leverhulme-Peierls Fellow; co-superv. B. Kocsis & S. Sondhi) 2023-P. Reichherzer (Gateway & W. Benjamin Fellow; co-superv. G. Gregori) N. A. Lopez (STFC; co-superv. G. Gregori) → research staff, Tokamak Energy Ltd 2022-24 2019-J. Ruiz Ruiz (EPSRC Fellow; co-superv. F. Parra & M. Barnes) 2019-22 M. Hardman (EPSRC; co-superv. F. Parra & M. Barnes) → research staff, Tokamak Energy Ltd 2016-19 Y. Kawazura (STFC; co-superv. M. Barnes) \rightarrow now Assoc. Prof., Utsunomiya U, Japan T. G. White (EPSRC; co-superv. G. Gregori) -> now Assoc. Prof., U Nevada, Reno 2016-17 2015-17 M. Strumik (Marie Curie Fellow) → Space Research Centre, Polish Academy of Sciences 2009-13 A. Zocco (WPI, EFDA & CCFE Fellow) \rightarrow Staff Scientist, IPP, Greifswald M. W. Kunz (STFC & JRF Mansfield) → now Assoc. Prof. (tenured), Princeton 2009-11 2009-11 F. I. Parra (JRF Ch. Ch. & EPSRC Fellow) → now Prof., Princeton & Head of Theory, PPPL 2009-11 M. A. Barnes (Oxford-Culham Fellow) → now Prof., Oxford 2007-08 A. B. Iskakov (UCLA & WPI; co-superv. S. Cowley) → now at Inst. of Control Sci., Moscow 2005-09 T. A. Yousef (UKAFF, Isaac Newton Trust, STFC) → now at Technip Energies, Paris SELECTED INVITED TALKS, COLLOQUIA & CONFERENCE LEADERSHIP (since 2005) 2008-19,22-24 Principal Organiser, Annual Plasma Kinetics Workshops, W. Pauli Institute, Vienna

Scientific Advisor, Kinetic Theory of Plasmas & Self-Gravitating Systems, KITP, Santa Barbara

Member of SOC, PLASMAScience Summer School, Porquerolles, France

2024

2024

2010,14,19,22,24 Invited Speaker, Physics of Intracluster Medium: Theory & Computation Conf. Series 2024 Invited Speaker, Physics Department Colloquium, University of Bath 2024 Invited Panellist, Synergistic Approaches to Particle Transport in Magnetized Turbulence, PCTS, Princeton 2024 Invited Speaker, Physics Colloquium, University of Pisa, Italy Invited/Keynote Speaker, Vlasovia: Int'l Conference on Theory & Applications of the Vlasov Equation 2013,16,24 2023 Invited Review, Cosmic Turbulence and Magnetic Fields, IESC, Cargèse, Corsica 2023 Invited Speaker, Colloque de l'Institut d'Astrophysique de Paris 2023 Co-organiser, Simons Symposium on Multiscale Physics, Schloss Elmau, Germany 2007,13-19,23 Invited Lecturer, École de Physique des Houches (bi-annual plasma physics sessions) 2023 Invited Speaker, Working Across Scales in Complex Systems, Emory University, Atlanta Invited Speaker, Institute for Advanced Studies/Princeton Joint Astrophysics Colloquium, Princeton 2022 2022 Invited Speaker, AlbaNova/NORDITA Colloquium, Stockholm 2022 Invited Speaker, Turbulent Dissipation in Space Plasmas, Royal Society Meeting, Nottingham 2021 Plenary Review, 63rd Annual Meeting of APS Division of Plasma Physics, Pittsburgh 2021 Invited Speaker, MHD: Physics for the 21st Century, Lorentz Center, Leiden 2021 Invited Speaker, Astrophysics Colloquium, MIT Invited Speaker, Laboratory Astrophysics with Intense Lasers, IIT, Hyderabad 2020 2020 Invited Speaker, Russian National Festival of Science 2019 Scientific Advisor, Multiscale Phenomena in Plasma Astrophysics, KITP, Santa Barbara Invited Speaker, Waves Côte d'Azur, Nice 2019 2015,19 Invited Speaker, International Sherwood Fusion Theory Conference 2019 Keynote Review, International Conference on High-Energy-Density Science, Oxford 2018 Organiser, Simons Program on Plasma Physics & Astrophysics, NBIA, Copenhagen 2017 Principal Organiser, JPP Frontiers in Plasma Physics Conference, Spineto, Tuscany 2017 Invited Speaker, JCBA Colloquium, University of Manchester 2016 Invited Speaker, Magnetisation of Interstellar & Intergalactic Media, Berlin 2016 Invited Speaker, NJ Fisch Symposium: Solved & Unsolved Problems in Plasma Physics, Princeton 2016 Invited Speaker, MIPSE Colloquium, University of Michigan, Ann Arbor 2015 Invited Speaker, 16th European Fusion Theory Conference, Lisbon 2015 Member of SOC, Turbulence & Dissipation in Collisionless Astrophys. Plasmas, IESC, Cargèse, Corsica 2015 Invited Speaker, ICM Physics & Modelling, MPA, Garching, Germany 2015 Invited Lecturer, Int'l School on Geodynamo, ICTS, Bangalore Invited Participant & Speaker, International Space Sciences Institute, Bern, Switzerland 2010,15 2007,14 Invited Speaker, High-Energy Astrophysics Today and Tomorrow, IKI, Moscow 2014 Invited Speaker, Inhomogeneities in Intracluster Plasma, KIPAC, Stanford Invited Speaker, 41st EPS Conference on Plasma Physics, Berlin 2014 2013 Member of Program Committee, Stability, Energetics, & Turbulent Transport in Plasmas, PCTS, Princeton 2012 Invited Speaker, Future Directions for Dynamo Research, Madison, Wisconsin 2012 Invited Speaker, Tangled Magnetic Fields in Astro- & Plasma Physics, ICMS, Edinburgh 2012 Invited Lecturer, 1st Euro. School on Fundamental Processes in Space Weather, Spineto, Italy 2012 Invited Speaker, IPP Colloquium, Max Planck Inst. for Plasma Physics, Greifswald, Germany 2011 Member of International Advisory Committee, Int'l Astrophysics Forum, Alpbach, Tirol 2011 Invited Speaker, April Meeting of APS, Anaheim, California 2011 Invited Speaker, 478th Heraeus Seminar: Fusion & Astrophysical Plasmas, Bad Honnef 2011 Invited Speaker, Astrophysics & Cosmology with Galaxy Clusters, KITP, Santa Barbara 2010 Invited Speaker, Munich Joint Astronomy Colloquium, ESO, Garching, Germany 2010 Invited Speaker, Non-thermal Phenomena in Colliding Galaxy Clusters, Nice 2010 Principal Organiser, Gyrokinetics in Laboratory & Astrophysical Plasmas, INI, Cambridge 2010 Invited Speaker, Self-Organization in Turbulent Plasmas & Fluids, Dresden 2009 Keynote Lecture, Plasmas, Computation & Mathematics, Ambleside, UK 2009 Invited Speaker, 12th International Solar Wind Conference, Saint-Malo, France 2009 Invited Lecturer, School on Astrophysical Turbulence & Dynamos, ICTP, Trieste 2009 Member of SOC, Plasma Instabilities & Turbulence in Fusion Plasmas, IoP Meeting, U. of Warwick 2009 Invited Lecturer, Frontiers in Dynamo Theory, Institut Henri Poincaré, Paris 2005-09 Invited Lecturer, Annual CMPD Winter Schools on Plasma Physics, UCLA 2008 Co-organiser, Structures and Waves in Anisotropic Turbulence, INI Satellite Meeting, Warwick Inviter Speaker, Kinetic Modeling of Astrophysical Plasmas, Cracow, Poland 2008 Invited Speaker, Theory of Fusion Plasmas, Villa Monastero, Varenna, Italy 2008 2008 Invited Speaker, Saturation & Transport Properties of MRI Turbulence, IAS, Princeton 2008 Invited Speaker, 35th EPS Conference on Plasma Physics, Hersonissos, Crete 2008 Invited Speaker, 1st NILES Int'l Workshop on Lasers & Plasmas, Cairo, Egypt 2005,07 Invited Speaker, Festivals de Théorie, Aix-en-Provence, France 2007 Invited Lecturer, 2nd Int'l School on Advanced Computing & Simulation, Cambridge 2007 Invited Speaker, EGU General Assembly, Vienna 2007 Invited Speaker, Institute of Astronomy Colloquium, Cambridge Invited Speaker, Grand Challenge Problems in Computational Astrophysics, IPAM, UCLA 2006 Invited Speaker, Instabilities and Turbulence in MHD Flows, U. of Warwick 2006 2006 Invited Review, 13th International Congress on Plasma Physics, Kiev, Ukraine 2005 Invited Speaker, 47th Annual Meeting of APS Division of Plasma Physics, Denver