

## CURRICULUM VITAE – Alexander Schekochihin

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Google Scholar: <https://scholar.google.com/citations?user=tM5qGBwAAAAJ>

### **University of Oxford, Department of Physics/Rudolf Peierls Centre for Theoretical Physics**

2019- Head of Theoretical Astrophysics and Plasma Physics Group  
2014- Professor of Theoretical Physics  
2008- Fellow and Tutor in Physics, Merton College  
2008-14 University Lecturer in Theoretical Astrophysics

### **Imperial College London, Department of Physics**

2006-08 Lecturer in Plasma Physics, RCUK Fellow & STFC Advanced Fellow

### **University of Cambridge, Department of Applied Mathematics & Theoretical Physics**

2005-07 PPARC Advanced Fellow & Research Fellow of King's College  
2003-05 UKAFF Fellow & Research Fellow of Wolfson College

### **Imperial College London, Department of Physics**

2002-03 Postdoctoral Research Associate (supervisor: S. C. Cowley)

### **University of California, Los Angeles, Department of Physics and Astronomy**

2001 Postdoctoral Fellow (supervisor: S. C. Cowley)

### **Princeton University**

1997-2001 PhD, Astrophysical Sciences (advisor: R. M. Kulsrud)  
1995-1997 MA, Astrophysical Sciences (advisor: J. A. Krommes)

### **Moscow Institute of Physics and Technology (МФТИ)**

1990-1995 BSc *summa cum laude*, Applied Mathematics and Physics

### **DISTINCTIONS, FELLOWSHIPS, etc.**

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**

167 refereed articles (including 32 PRL/PRX, 14 Nature/Science/PNAS etc.; full list [here](#)) + 3 submitted  
25 reports/proceedings/white papers  
 $N > 14,200$  citations, **h-index = 65**,  $i_{10} = 150$ ,  $i_{100} = 46$  ([Google Scholar](#))  
94 invited talks/lectures/reviews & 91 seminars/colloquia (selected list below)  
(co-)organiser or member of SOC for 28 conferences/workshops (selected list below)

## SERVICE (selected)

- 2021- Member of [University Council](#), Oxford  
2018-23 Chair of Examiners, [MMathPhys/MScMTP degree](#), Oxford  
2013- [Editor-in-Chief](#) (with W. Dorland till 2023), *Journal of Plasma Physics* (Cambridge U Press)  
2011-14 Member of Editorial Board, *Reports on Progress in Physics* (IoP)

## DPhil/PhD STUDENTS (17 formally supervised+8 informal collaborations/co-superv.; \*cont'd as postdocs)

- 2022- [L.-P. Turica](#) (co-adv. A. R. Field), Oxford/UKAEA  
2021- [Y. Zhang](#) (co-adv. M. Barnes), Oxford/TE Ltd  
2021- [W. Clarke](#) (co-adv. M. Barnes & C. M. Roach), Oxford/UKAEA  
2021- [M. L. Nastac](#) (co-adv. M. Barnes), Oxford  
2020- [R. J. Ewart](#), Oxford  
2018-23\* [T. G. Adkins](#) (co-adv. C. M. Roach), Oxford/UKAEA → *now postdoc, U Otago, NZ*  
2018-22 [D. N. Hosking](#) (co-adv. S. A. Balbus), Oxford Astro, [EPS PhD Award](#), [IAU PhD Prize](#), [RAS M. Penston Thesis Prize](#) → *PCTS Fellow, Princeton & JRF, G&C Coll. Cambridge*  
2016-21\* [P. G. Ivanov](#), Oxford/UKAEA, [EPS PhD Award](#) → *now postdoc, Oxford*  
2018-19\* [D. A. St-Onge](#) (adv. M. W. Kunz), Princeton → *now at Vola Dynamics LLC, Canada*  
2015-19 [A. F. A. Bott](#) (co-adv. G. Gregori), Oxford, [EPS PhD Award](#) → *now UKRI FLF, Oxford*  
2012-17 [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*  
2013-16 [S. V. Komarov](#) (adv. E. M. Churazov), MPA Garching → *now at Machine Medicine Tech., London*  
2010-16 J. T. Parker (adv. P. J. Dellar), Oxford Maths → *STFC Sci. Comp. Dept, Rutherford Appleton Lab.*  
2009-16 [G. J. Colyer](#), Oxford/UKAEA → *now postdoc, AOPP, Oxford*  
2009-16 [A. Mallet](#), Oxford Astro → *now Asst. Researcher, Space Science Laboratory, UC Berkeley*  
2009-15 [A. V. Kanekar](#) (adv. W. Dorland), U of Maryland → *now at Protocol Labs, London*  
2009-12 [Y.-c. Ghim](#) (co-adv. A. R. Field), Oxford/UKAEA → *now Assoc. Prof. (tenured), KAIST*  
2007-12\* [I. G. Abel](#), Oxford/UKAEA → *now Asst. Research Scientist, U Maryland*  
2007-12\* [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*  
2006-10 [M. S. Rosin](#), Cambridge → *now Assoc. Prof., Pratt Institute, New York*  
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\* [N. F. Loureiro](#) (adv. M. G. Haines), Imperial → *now Prof., 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)  
2022- [N. A. Lopez](#) (STFC; co-superv. G. Gregori)  
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 at Tokamak Energy Ltd*  
2016-19 [Y. Kawazura](#) (STFC; co-superv. M. Barnes) → *Asst. Prof., Tohoku U, Japan*  
2016-17 [T. G. White](#) (EPSRC; co-superv. G. Gregori) → *Assoc. Prof., U Nevada, Reno*  
2015-17 M. Strumik (Marie Curie Fellow) → *Space Research Centre, Polish Academy of Sciences*  
2009-13 [A. Zocco](#) (WPI, EFDA & CCFE Fellow) → *Staff Scientist, IPP, Greifswald*  
2009-11 [M. W. Kunz](#) (STFC & JRF Mansfield) → *now Assoc. Prof. (tenured), Princeton*  
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  
2024 *Scientific Advisor*, Kinetic Theory of Plasmas & Self-Gravitating Systems, KITP, Santa Barbara  
2013,16,24 *Invited/Keynote Speaker*, Vlasovia: Int'l Conference on Theory & Applications of the Vlasov Equation  
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  
2022 *Invited Speaker*, Institute for Advanced Studies/Princeton Joint Astrophysics Colloquium, Princeton  
2010,14,19,22 *Invited Speaker*, Physics of Intracluster Medium: Theory & Computation Conf. Series  
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  
2020 *Invited Speaker*, Laboratory Astrophysics with Intense Lasers, IIT, Hyderabad  
2020 *Invited Speaker*, Russian National Festival of Science  
2019 *Scientific Advisor*, Multiscale Phenomena in Plasma Astrophysics, KITP, Santa Barbara  
2019 *Invited Speaker*, Waves Côte d'Azur, Nice  
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 Phys., 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  
2010,15 *Invited Participant & Speaker*, International Space Sciences Institute, Bern, Switzerland  
2007,14 *Invited Speaker*, High-Energy Astrophysics Today and Tomorrow, IKI, Moscow  
2014 *Invited Speaker*, Inhomogeneities in Intracluster Plasma, KIPAC, Stanford  
2014 *Invited Speaker*, 41st EPS Conference on Plasma Physics, Berlin  
2013 *Member of Program Comm.*, 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  
2008 *Invited Speaker*, Kinetic Modeling of Astrophysical Plasmas, Cracow, Poland  
2008 *Invited Speaker*, Theory of Fusion Plasmas, Villa Monastero, Varenna, Italy  
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  
2006 *Invited Speaker*, Grand Challenge Problems in Computational Astrophysics, IPAM, UCLA  
2006 *Invited Speaker*, Instabilities and Turbulence in MHD Flows, U. of Warwick  
2006 *Invited Review*, 13th International Congress on Plasma Physics, Kiev, Ukraine  
2005 *Invited Speaker*, 47th Annual Meeting of APS Division of Plasma Physics, Denver