Jesse Liu

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APPOINTMENTS	Junior Research Fellow, Trinity College, University of Cambridge, UK On leave Oct 2019 – Sep 2021	2019 – present
	Grainger Postdoctoral Fellow, University of Chicago, USA	2019 – 2021
EDUCATION	DPhil Particle Physics, University of Oxford, UK Two-year research stay at CERN, Switzerland Thesis: 'Discovery strategies for dark matter and Higgsinos at the LHC' Supervisors: Alan Barr and John March-Russell	2015 – 2019
	MSc Physics, Perimeter Institute and University of Waterloo, Canada Essay: 'Field theory for continuous-spin particles' Supervisor: Natalia Toro	2014 – 2015
	BA Physics, University of Oxford, UK	2011 – 2014
Awards &	Idea Day Prize, ATLAS Collaboration	2021
SCHOLARSHIPS	Junior Research Fellowship (4 years, any discipline), Trinity College, Cambridge	2019
	Grainger Postdoctoral Fellowship (2 years, any field of physics), University of Chi	cago 2019
	Best Poster (1st out of 226 entries), International Conference on High Energy Physics	sics 2018
	Travel Grant, International Conference on High Energy Physics	2018
	Santander Academic Travel Award, University of Oxford	2018
	Postgraduate Studentship, PhD scholarship from STFC	2015
	PSI Award, MSc scholarship from Perimeter Institute and University of Waterloo	2014
	Fitzgerald Prize, Exeter College, Oxford	2014
	Summer Research Studentship, Oxford Particle Physics	2013
	Gibbs Prize, winner of Oxford physics speaking competition	2013
	East Scholarship, Exeter College, Oxford	2012
	Fitzgerald Prize, Exeter College, Oxford	2012
	Essay Prize, winner of Institute of Physics essay competition	2012
PAPERS	All papers available at INSPIREHEP. ATLAS author since 2017. Particle physics co	onvention lists

authors alphabetically. Selected papers with direct personal contributions:

- ATLAS Collaboration (**J. Liu** Editor), 'Observation of the $\gamma\gamma \to \tau\tau$ process in Pb+Pb collisions and constraints on the τ -lepton anomalous magnetic moment with the ATLAS detector', Phys. Rev. Lett. 131 (2023) 151802, arXiv:2204.13478 > PRL Editors' Suggestion, ATLAS Physics Briefing, The Conversation feature (in press)
- ATLAS Collaboration (J. Liu Chair of Editorial Board), 'Exclusive dielectron production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS', JHEP 06 (2023) 182, arXiv:2207.12781
- ATLAS Collaboration (J. Liu Member of Editorial Board), 'Measurement of the total cross section and ρ -parameter from elastic scattering in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector', Eur. Phys. J. C 83 (2023) 441, arXiv:2207.12246

> On the Cover, ATLAS Physics Briefing

- J. Liu, K. Dona, G. Hoshino, S. Knirck, N. Kurinsky, M. Malaker, D. W. Miller, A. Sonnenschein, M. H. Awida, P. S. Barry, K. K. Berggren, D. Bowring, G. Carosi, C. Chang, A. Chou, R. Khatiwada, S. Lewis, J. Li, S. W. Nam, O. Noroozian, T. X. Zhou, 'Broadband Solenoidal Haloscope for Terahertz Axion Detection', Phys. Rev. Lett. 128 (2022) 131801, arXiv:2111.12103

 Don the Cover and PRL Editors' Suggestion, UChicago News Release
- K. Dona, J. Liu, N. Kurinsky, D. Miller, P. Barry, C. Chang, A. Sonnenschein, 'Design and performance of a multi-terahertz Fourier transform spectrometer for axion dark matter experiments', JINST 17 (2022) P06014, arXiv:2104.07157
- ATLAS Collaboration (J. Liu Editor & Lead Analyzer), 'Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS', Phys. Rev. Lett. 125 (2020) 261801, arXiv:2009.14537
 ATLAS Physics Briefing, CERN Courier feature
- J. Amacker, W. Balunas, L. Beresford, D. Bortoletto, J. Frost, C. Issever, **J. Liu**, J. McKee, A. Micheli, S. Paredes Saenz, M. Spannowsky, B. Stanislaus, 'Higgs self-coupling measurements using deep learning in the $b\bar{b}b\bar{b}$ final state', JHEP **12** (2020) 115, arXiv:2004.04240
- ATLAS Collaboration, 'Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector', Phys. Rev. D **101** (2020) 052005, arXiv:1911.12606
- L. Beresford and J. Liu, 'New physics and tau g − 2 using LHC heavy ion collisions', Phys. Rev. D 102 (2020) 113008, arXiv:1908.05180
 ParticleBites feature
- I. Dawson, B. Gallop, J. Liu, P. Miyagawa, P. Phillips, G. Pownall, D. Robinson and A. Weidberg, 'In situ radiation damage studies of optoelectronics in the ATLAS SemiConductor Tracker', JINST 14 (2019) P07014
- L. Beresford and J. Liu, 'Search Strategy for Sleptons and Dark Matter Using the LHC as a Photon Collider', Phys. Rev. Lett. 123 (2019) 141801, arXiv:1811.06465
- ATLAS Collaboration (**J. Liu** Editor & Lead Analyzer), 'Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s} = 13$ TeV with the ATLAS detector', Phys. Rev. D **97** (2018) 052010, arXiv:1712.08119
 - ▷ Two ATLAS Physics Briefings, CERN Courier feature, Oxford Physics highlight
- A. Barr and J. Liu, 'Analysing parameter space correlations of recent 13 TeV gluino and squark searches in the pMSSM', Eur. Phys. J. C 77 (2017) 202, arXiv:1608.05379
- A. Barr and J. Liu, 'First interpretation of 13 TeV supersymmetry searches in the pMSSM', arXiv:1605.09502, Published with 1608.05379 in Eur. Phys. J. C 77 (2017) 202
 Oxford Physics highlight

INVITED SEMINARS

Sorbonne Université, LPTHE Phenomenology Seminar, France	3 Oct 2023
Institut d'Astrophysique de Paris, ICAP Seminar, France (Online)	22 Jun 2023
University of Sydney, CPPC Seminar, Australia (Online)	4 May 2023
Johns Hopkins University, Experimental Particle Physics Seminar, USA	5 Apr 2023
Massachusetts Institute of Technology, LNS Colloquium, USA	27 Feb 2023
Brown University, High Energy Experiment Seminar, USA	15 Feb 2023
University of Edinburgh, Experimental Particle Physics Seminar, UK	27 Jan 2023
University of Bristol, Particle Physics Seminar, UK	7 Dec 2022

	University of Liverpool, HEP Seminar, UK	16 Nov 2022
	Imperial College London, HEP Seminar, UK	15 Jun 2022
	University of Warwick, Particle Physics Seminar, UK	9 Jun 2022
	Cornell University, LEPP Journal Club Seminar, USA (Online)	6 May 2022
	Perimeter Institute for Theoretical Physics, Particle Physics Seminar, Canada	3 May 2022
	Case Western Reserve University, Particle/Astro Seminar, USA (Online)	1 Mar 2022
	University of Cambridge, Cavendish HEP Seminar, UK	30 Nov 2021
	University of Tennessee Knoxville, HEP Seminar, USA (Online)	8 Sep 2021
	Cornell University, LEPP Journal Club Seminar, USA (Online)	30 Oct 2020
	Stony Brook University, Particle Physics Seminar, USA (Online)	19 Oct 2020
	University of Pittsburgh, PITT PACC Seminar, USA (Online)	5 Aug 2020
	SLAC Stanford University, Particle Physics Theory Seminar, USA	12 Feb 2020
	Fermilab, Cosmic Physics Center Chalk Talk, USA	14 Nov 2019
	Fermilab, LPC Physics Forum, USA	31 Oct 2019
	University of Cambridge, Cavendish HEP Seminar, UK	19 Feb 2019
	LBNL University of California Berkeley, RPM Seminar, USA	20 Nov 2018
	SLAC Stanford University, Joint Theory–Experiment Seminar, USA	20 Apr 2018
	Perimeter Institute for Theoretical Physics, BSM Seminar, Canada	17 Apr 2018
	University of California Santa Cruz, SCIPP Seminar, USA	10 Apr 2018
	University of Oxford, Dalitz Seminar, UK	19 Jan 2017
	University of Cambridge, Joint DAMTP–Cavendish Seminar, UK	13 Jan 2017
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Conference	BREAD Collaboration Meeting, Chicago, USA	5 Oct 2023
& WORKSHOP	European Physical Society (EPS) HEP Conference, Hamburg, Germany	24 Aug 2023
TALKS	Dark Matter Beyond the Weak Scale Conference, Liverpool, UK	28 Mar 2023
	Photon-induced Processes Workshop, Durham, UK	3 Nov 2022
	Dark Matter UK Meeting, London, UK	22 Sep 2022
	International Conference on High Energy Physics (ICHEP), Bologna, Italy	8 Jul 2022
	Institute of Physics (IoP) Joint APP HEPP Conference, Harwell, UK	5 Apr 2022
	Snowmass Cosmic Frontier CF2 Wavelike DM Meeting (Online)	8 Oct 2021
	American Physical Society (APS) DPF Meeting, Florida State, USA (Online)	14 Jul 2021
	Phenomenology Symposium, Pittsburgh, USA (Online)	25 May 2021
	American Physical Society April Meeting (Online)	20 Apr 2021
	DIS Conference, Stony Brook, USA (Online)	14 Apr 2021
	LHC Forward Physics Meeting (Online)	4 Mar 2021
	Forward Physics and QCD with LHC, EIC and Cosmic Rays (Online)	23 Jan 2021
	Snowmass Energy Frontier EF09 BSM Meeting (Online)	4 Sep 2020
	ICHEP Conference, Prague, Czech Republic (Online)	30 Jul 2020
	Snowmass Energy Frontier Joint Preparatory Session (Online)	8 Jul 2020
	Higgs Couplings Conference, Oxford, UK	2 Oct 2019
	Young Experimentalists & Theorists Institute, Durham, UK	8 Jan 2019
	LHC Forward Physics Workshop, CERN, Switzerland	18 Dec 2018
	Oxford-Durham Di-Higgs Workshop, Durham, UK	6 Nov 2018
	SUSY Conference, Barcelona, Spain	23 Jul 2018
	ICHEP Conference, Seoul, South Korea	6 Jul 2018
	DM@LHC Workshop, Heidelberg, Germany	5 Apr 2018
	Institute of Physics Joint APP HEPP Conference, Bristol, UK	27 Mar 2018
	Young Theorists Forum, Durham, UK	10 Jan 2018
	Young Theorists Forum, Durham, UK	11 Jan 2017

	2nd LHC BSM Reinterpretation Workshop, CERN, Switzerland	14 Dec 2016
	Theoretical Particle Physics Summer School, Manchester, UK	31 Aug 2016
	1st LHC BSM Reinterpretation Workshop, CERN, Switzerland	17 Jun 2016
	1st 2110 2011 Telmerpremien Workshop, C214 V, Switzerland	17 Juli 2010
COLLABORATION	ATLAS SM Workshop, Prague, Czechia	12 Sep 2023
PLENARIES	ATLAS ITk Strips Module Meeting (Online)	18 Jul 2023
	ATLAS UK Meeting, Manchester, UK	9 Jan 2023
	ATLAS SUSY Workshop, CERN, Switzerland	19 Sep 2022
	ATLAS ITk WP12 Meeting, Birmingham, UK	31 Mar 2022
	ATLAS Upgrade Physics (Online)	22 Apr 2021
	ATLAS SM Plenary (Online)	15 Apr 2021
	ATLAS Run 4 Roman Pot Meeting (Online)	26 Mar 2021
	ATLAS Idea Day (Online)	20 Jan 2021
	ATLAS Roman Pot General Meeting (Online)	7 Oct 2020
	ATLAS SM Jamboree (Online)	30 Sep 2020
	ATLAS SM Plenary Analysis Closure (Online)	2 Jul 2020
	ATLAS Week Plenary on SM & AFP (Online)	24 Jun 2020
	ATLAS Roman Pot General Meeting, CERN, Switzerland	23 Jan 2020
	ATLAS Hadronic Final State Forum, Chicago, USA	20 Dec 2019
	ATLAS UK SUSY–Exotics Meeting, Cambridge, UK	11 Apr 2019
	ATLAS SUSY Run 3 Ideas, CERN, Switzerland	22 Nov 2018
	ATLAS SUSY Plenary, CERN, Switzerland	19 Jul 2018
	ATLAS Exotics Workshop, Rome, Italy (poster)	29 May 2018
	ATLAS Week Plenary on SUSY, CERN, Switzerland	21 Feb 2018
	ATLAS Analysis Open Presentation, CERN, Switzerland	1 Nov 2017
	ATLAS Exotics–SUSY Workshop, Bucharest, Romania	12 May 2017
	ATLAS SUSY Electroweak, CERN, Switzerland	10 Feb 2017
	ATLAS UK Meeting, Liverpool, UK	5 Jan 2017
	ATLAS UK Meeting, Liverpoot, UK ATLAS Week Plenary on SCT/ID Gen, CERN, Switzerland	17 Oct 2016
	ATLAS WEEK FICHALY OILSCIAID GEIL, CERN, SWITZEITAILU	17 Oct 2010
MENTORING	Graduate student collaborators	
& TEACHING	Kristin Dona, PhD student, UChicago	2019 - 2021
	Savannah Clawson, PhD student, Manchester	2019 - 2020
	Santiago Paredes Saenz, PhD student, Oxford	2018 - 2020
	Beojan Stanislaus, PhD student, Oxford	2018 - 2020
	Gabriel Gallardo, PhD student, Oxford	2018 - 2019
	Gavin Pownall, PhD student, Oxford	2018 - 2019
	Undergraduate student collaborators	
	Joe Ray, MPhys student, Oxford	2018 – 2019
	Dan Kreso, MPhys student, Oxford	2017 – 2018
	Alessandro Micheli, summer student, Oxford	2017 2018
	Ewan McCullough, summer student, Oxford	2017
	Charles Sillett, summer student, Oxford/CERN	2017
	Trinity College Postdoc-PhD mentoring programme	2022
	Pre-doctoral career mentoring (3 students)	2021, 2018
	Lecturer, Oxford undergraduate summer students: 'The Standard Model'	Jul 2018
	Tutor, Oxford 3rd year undergraduates: 'Flows, Fluctuations & Complexity'	May 2016
	Tutor, Oxford 3rd year undergraduates: 'Subatomic Physics'	May 2016

ATLAS Inner Tracker (ITk) silicon strips upgrade module production ≥ 0.201 − present ⇒ Led assembly and quality control of 40+ ITk strips modules to prove production readiness ▶ Commissioned module thermal cycling, developed high-voltage controls and interlocks Convenor for Run 4 AFP Task Force on HL-LHC physics projections ▶ Choordination role organizing physics and performance for ATLAS Forward Proton upgrade ▶ Chaired meetings discussing beam optics, detector performance and physics opportunities ATLAS Forward Proton combined performance and data preparation ▶ Chievend first collaboration-wide AFP performance recommendations for 2017 dataset Convenor for LHC Forward Physics Working Group Grant expert reviewer for National Science Centre, Poland 2023 Grant expert reviewer for National Science Centre, Poland 2023 Contributing author, Snowmass whitepaper 'Axion Dark Matter', 2203.14923 2022 UChicago ATLAS website development Journal referee for Natioear Physics Institute reading coordination (Trigger), UChicago ATLAS group Coordinator for Snowmass Letter of Interest on terahertz axions Aug 2020 Grantinger Fellowship website development, Uchicago Physics Postdoctoral community working group, UChicago KICP Journal club, UChicago ATLAS group Journal club, UChicago TATLAS group Journal club, UChicago TATLAS group Journal club, UChicago Catlada preparation Resident advisor for US visiting students, Williams-Exeter Programme at Oxford Physics aptitude test marker, Oxford undergraduate admissions Resident advisor for US visiting students, Williams-Exeter Programme at Oxford Physics Physics Briefing, online news article on AFP result The Conversation, news article on tau	Leadership & Service	Convenor of ATLAS Standard Model Soft QCD physics group Display 2022 − present Coordination role organizing program of 20 analyses probing non-perturbative dynamics Coordinated group strategy, bi-weekly plenary meetings, Standard Model workshop agendas
De Coordination role organizing physics and performance for ATLAS Forward Proton upgrade be Chaired meetings discussing beam optics, detector performance and physics opportunities ATLAS Forward Proton combined performance and data preparation 2019 − 2020 be Led scrutiny of AFP data quality, detector efficiency, energy scale calibration, simulation be Delivered first collaboration-wide AFP performance recommendations for 2017 dataset Convenor for LHC Forward Physics Working Group 2023 Grant expert reviewer for National Science Centre, Poland 2023 Journal referee for Annalen der Physik 2023 Contributing author, Snowmass whitepaper 'Axion Dark Matter', 2203.14923 2022 UChicago ATLAS website development 2021 Journal referee for Nuclear Physics B 2021 Institute reading coordination (Trigger), UChicago ATLAS group 2021 Dournal referee for Nuclear Physics B 2021 Institute reading coordination (Trigger), UChicago ATLAS group 2020 Coordinator for Snowmass Letter of Interest on terahertz axions 2021 Aug 2020 Grainger Fellowship website development, UChicago Physics 2021 Jul 2020 Journal club, UChicago ATLAS group 2020 Graduate open day speaker & poster, Oxford Particle Physics 2021 Jul 2020 Graduate open day speaker & poster, Oxford Particle Physics 2021 Jul 2020 Graduate open day speaker & poster, Oxford Particle Physics 2021 Jul 2021 Physics aptitude test marker, Oxford undergraduate admissions 2021 Aug 2021 Physics aptitude test marker, Oxford undergraduate admissions 2021 Aug 2021 Physics aptitude test marker, Oxford undergraduate admissions 2021 Aug 2022		Delto Led assembly and quality control of 40+ ITk strips modules to prove production readiness
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		Oxford FameLab, 'Listening to numbers' talk 25 Jan 2016

Oxford Stargazing Live, all-day live demos at particle physics stall	16 Jan 2016
Oxford Science Christmas Lectures, mentoring school students	8 Dec 2015
Oxford Flash Talk Physics, 'Fiddling with physics' invited talk	4 Dec 2013
Institute of Physics essay, 'Predicting the unpredictable'	30 May 2012