

MPhys Project Allocation as at 28 September 2020

Sorted by **Student Surname**

Allocated	Student Name	College	Project Title	Project Supervisor 1	Project Supervisor 2
CMP24	Anderton, Harry	EXT	Investigation of the phase diagrams of doped spin ice	Prabhakaran, Dr Dharmalingam	Boothroyd, Prof Andrew
AS32	Anslow, Richard	SED	tbc	Balbus, Prof Steve	
PP12	Anton, Jonah	JES	Improved understanding of proton structure	Gwenlan, Prof Claire	
AS16	Baka, Tomasz	CCH	Illuminating the interstellar medium towards relativistic jets with MeerKAT	Allison, Dr James	
CMP06	Bedford, Rory	BNC	Decoding the science of ultimate performance in perovskite solar cells: the beauty of interfacial engineering	Lin, Dr Yen-Hung	Snaith, Prof Henry
PP0901	Bex, Joshua	WOR	Measurements of matter-antimatter asymmetries at the LHC	Wilkinson, Prof Guy	
INT06	Brennan-Rich, Callum	TRI	Nuclear Spin Pumping in a metallic Ferromagnet	Gregg, Prof John	Karenowska, Dr Alexy
AO06	Campbell, Catriona	SED	Measuring the global temperature of the Earth since 2010 from the Moon	Warren, Dr Tristram	Bowles, Prof Neil
AO14	Chee, Hsin Yee	SPE	The impact of a stochastic sea-ice scheme on Arctic climate variability and European weather.	Strommen, Dr Kristian	Christensen, Dr Hannah
AS2302	Cherry, George	SHU	Detection of transiting exoplanets with the TESS space mission	Aigrain, Prof Suzanne	
AO01	Cotton, Deborah	PBK	Mushy gravity currents: modelling brine flows into ice shelves and snow on sea ice.	Wells, Dr Andrew	
CMP08	Dai, Zhiwei	MER	Developing a pulsed electron spin resonance spectrometer with arbitrary pulse shaping capability	Liu, Dr Junjie	Ardavan, Prof Arzhang
TP05	Derry, Simon	SOM	Micro-stability of plasma immersed in 3D magnetic fields	Barnes, Prof Michael	
AS36	Dixon, Joseph	UNI	Radio telescope receiver systems	Jones, Prof Mike	Taylor, Prof Angela
AO12	Driver, Oliver	WAD	The fractal dimension of clouds	Christensen, Dr Hannah	
PP06	Duckett, Philippa	JES	LHCb data analysis of semileptonic B decays	John, Dr Malcolm	
BIO06	Edwards, Rory	SED	DNA Nanostructures	Turberfield, Prof Andrew	
TP0702	Eira, Alexandre	ORL	Topics in Geometry, Number Theory and Gauge/String Theory	He, Prof Yang-Hui	
A&L17	Ernst, Jan	ORL	Entanglement analysis in an analytically solvable model	Vedral, Prof Vlatko	
INT14	Everett, Christopher	KBL	tbc	Gregg, Prof John	
CMP14	Feaster, Matthew	MAN	Dipolar fields at muon sites in randomized structures.	Blundell, Prof Stephen	
AO08	Fisher, Jamie	SCA	Viewing Clouds with IASI	Dudhia, Dr Anu	
CMP03	Form, Joshua	BNC	Doping of Semi-Transparent Conductive Single-Walled Carbon Nanotube: Polymer Films	Nicholas, Prof Robin	Riede, Dr Moritz
AO19	Fox, Elizabeth	WAD	The role of ocean physics in interannual variability of the jet stream	Woollings, Prof Tim	
AO05	Fragopulos, Michalis	LMH	Investigating the YORP effect in the Laboratory	Warren, Dr Tristram	Bowles, Prof Neil
AO2601	Gaiser-Porter, Stephan	WOR	Exploring interactions between climate change and economic growth	Allen, Prof Myles	
AO29	Gedney, Maurice	QNS	Mapping Venus	Wilson, Dr Colin	
AO24	Gillard, Emma	LMH	Signatures of Southern Hemisphere Natural Climate Variability	Gray, Prof Lesley	Osprey, Dr Scott
AS10	Godden, Emma	MAN	Very-high-energy gamma-ray astrophysics with the Cherenkov Telescope Array	Cotter, Prof Garret	
AS2301	Goss, Aaron	WOR	Detection of transiting exoplanets with the TESS space mission	Aigrain, Prof Suzanne	
AO04	Griffiths, Henry	TRI	Understanding the Heat Flow around the Lunar Surface for Mission Planning	Warren, Dr Tristram	Bowles, Prof Neil
A&L07	Guerrero, Leon	LMH	Laser Cooling and Trapping of Neutral Atoms	Kuhn, Prof Axel	
PP10	Hall, Howard	SHU	The A2D2 silicon tracker detector for the ATRAP experiment	Shipsey, Prof Ian	Plackett, Dr Richard
AO2602	Hampshire, Alexander	HTF	Exploring interactions between climate change and economic growth	Allen, Prof Myles	
AO07	Hannah, Daniel	SOM	Atmospheric Pollution in Siberia	Dudhia, Dr Anu	

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BIO03	Hasland, Michael	SJO	Back-scattering dark-field microscopy with mobile phones, for malaria detection	Berry, Dr Richard	
AO31	Heathcote, Daniel	KBL	tbc	Allen, Prof Myles	
AS03	Hopkins, Matthew	SJO	Galaxy Mergers and Quenching	Lintott, Prof Chris	
AO10	Howey, Robert	CCH	Evolution and dynamics of Jupiter's cloudy atmosphere	Irwin, Prof Pat	
CMP07	Hung, Esther	SCA	"There's Plenty of Room at the Bottom" – Nanostructure-assembly towards high-performance perovskite solar cells	Lin, Dr Yen-Hung	Snaith, Prof Henry
A&L10	Jackson, Jacob	SHI	Relativistic Molecular Dynamics Simulations	Gregori, Prof Gianluca	
INT04	Jacobson, Adi	CCH	Very-high-energy gamma-ray astrophysics with the Cherenkov Telescope Array	Cotter, Prof Garret	
AS0201	Jain, Lokesh	BNC	Dissipation of tides in the convective envelope of stars	Terquem, Prof Caroline	
A&L02	Jenkinson, Ross	SCA	Rapid precision sensing with a quantum computer	Ballance, Dr Chris	
A&L01	Jones, Peter	WOR	Designing robust trapped-ion quantum computers	Ballance, Dr Chris	
A&L08	Kanda, Charles	JES	Modelling of modulation transfer spectroscopy	Smith, Dr Robert	
CMP11	Kapur, Payaam	SPE	Exploring the electronic structure and superconductivity of iron-based superconductors under external strain	Coldea, Prof Amalia	
AS21	Kendell, Harry	PBK	Designing a frequency comb source for HARMONI line spread function calibration	Thatte, Prof Nirranjan	
AO16	Lane, Benjamin	LIN	Cloud top properties of convective, volcanic and fire-driven storms.	Proud, Dr Simon	
TP10	Liu, Tongfei	SED	Cell motility in polymer networks	Yeomans, Prof Julia	
AO25	Lloyd, Huw	KBL	A Wind Sensor for Titan	Wilson, Dr Colin	
CMP15	Lord, Joseph	SOM	Stray field distributions, spin ice, and demagnetization.	Blundell, Prof Stephen	
A&L0302	Lowe, Oliver	JES	A compact and efficient optically-heated atomic source for ion traps	Goodwin, Dr Joe	
AO03	Mantzog, George	CCH	Understanding the Physics of Particle Scattering in the Search for Past Life on Mars with The Rosalind Franklin ExoMars Rover	Warren, Dr Tristram	Bowles, Prof Neil
AO20	Marchbank, Jacob	MAG	Dynamics of local Hadley circulation and droughts in Africa in a changing climate	Fučkar Dr Neven	Allen, Prof Myles
AS0202	Martin, Scott	UNI	Dissipation of tides in the convective envelope of stars	Terquem, Prof Caroline	
A&L04	Mathieson, Tristan	KBL	Superresolution imaging via linear optics in the far-field regime	Lvovsky, Prof Alex	
A&L12	Moghadam, Tomas	CCH	Wakefield acceleration in the a cluster plasma	Norreys, Prof Peter	
A&L0301	Ostergaard, Emil	SCA	A compact and efficient optically-heated atomic source for ion traps	Goodwin, Dr Joe	
BIO05	Panasawatwong, Adisorn	TRI	Structural, functional and computational studies of ion channels	Tucker, Prof Stephen	
TP08	Parris, Bruce	LIN	Mapping orbits in almost Keplerian potentials	Magorrian, Prof John	
CMP26	Penkov, Michail	SHI	The interaction between positive muons and quadrupolar nuclei	Blundell, Prof Stephen	
AO02	Penman, Robert	PBK	Patterns in melting permafrost: pathways to enhanced methane emissions?	Wells, Dr Andrew	
A&L25	Perry, Thomas	SPE	An interactive, virtual-reality thermodynamics laboratory	Foot, Prof Christopher	Bentine, Dr Elliot
BIO01	Pollacco, Joseph	PBK	Super-resolution imaging of pathogenic microbes	Kapanidis, Prof Achillefs	Robb, Dr Nicole
CMP17	Prasad, Arnav	WAD	Skyrmion Gas Manipulation and Computing	Hesjedal, Prof Thorsten	Brearton, Dr Richard
BIO08	Qian, Xiaoxu (Annie)	BAL	Physics of cryopreservation of cell membranes	Antoranz Contera, Dr Sonia	
PP0801	Rackham, Joshua	CCC	Using LHC measurements of precision ratios to search for new physics	Weidberg, Dr Tony	
INT09	Raghuram, Adarsh	QNS	Investigating the physics of coupled magnonic resonators at millikelvin temperatures	Karenowska, Dr Alexy	
BIO04	Rao, Rohan	QNS	3D tracking of single fluorescent molecules for application in live bacteria	Berry, Dr Richard	
CMP02	Roberts, Benjamin	KBL	Novel flux-tuneable qubits in superconducting quantum circuits	Vlastakis, Dr Brian	Leek, Prof Peter
TP11	Sarkany, Tasmin	LIN	tbc	Louis, Prof Ard	
AO15	Shah, Akshat	ORL	Deep learning for aircraft turbulence warnings.	Proud, Dr Simon	
AS26	Shu, Fanglin	WAD	Shape twisting of galaxies and halos in the NewHorizon simulation	Slyz, Prof Adrienne	Devriendt, Dr Julien
AS04	Sklenka, Marek	SOM	A Machine Enabled Search for Ring Galaxies	Lintott, Prof Chris	

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CMP04	Smith, Oliver	SPE	Improving quantum logic gates in superconducting quantum circuits	Leek, Prof Peter	
A&L05	Snow, Katharine	CCC	Optical neural networks	Lvovsky, Prof Alex	
BIO09	Song, William	CCC	Mechanical and transport properties of biomaterials for tissue engineering and 3D cell cultures	Antoranz Contera, Dr Sonia	
CMP23	Spackman, Thomas	BNC	Preparation and physical properties of a new candidate Weyl semi-metal	Prabhakaran, Dr Dharmalingam	Boothroyd, Prof Andrew
CMP05	Sun, Yuanyuan	SOM	High-fidelity multiplexed readout of qubits in circuit QED	Leek, Prof Peter	
AO27	Tao, Yuling (Bella)	MAG	Deep learning using high temporal resolution satellite data	Watson-Parris, Dr Duncan	Christensen, Dr Matthew
AS25	Walker, Felix	UNI	Cygnus X-1: a relativistic black hole jet in a dense stellar wind	Fender, Prof Rob	
CMP01	Wang, Qihao	MAN	Investigation of Microstructural Evolution in Organic Semiconductors	Riede, Prof Moritz	
AS18	Ward, Megan	MAG	Uncovering active black holes in distant galaxies	Bowler, Dr Rebecca	Jarvis, Prof Matt
A&L09	Wasilewski, Igor	JES	Simulations of a narrow-line magneto-optic trap	Smith, Dr Robert	
INT10	Watson, Damien	SJO	X-ray based tools for reading ancient texts	Karenowska, Dr Alexy	
AS05	Watson, Emily	LIN	Finding the optimal way of extracting density profiles from Gaia data	Cappellari, Prof Michele	
PP05	Wells, Mackenzie	EXT	Simulation and reconstruction of new Bc decays	John, Dr Malcolm	
AO30	Wilkinson, Beren	CCC	tbc	Wells, Dr Andrew	
PP20	Yeung, Ho (Derek)	SAN	Constraining atmospheric neutrino flux predictions for the SuperKamiokande Experiment using cosmic-ray muon data.	Barr, Prof Giles	
AO17	Zhang, Ruixian	PBK	Estimating Surface Reflectance Using a Neural Network	Povey, Dr Adam	Grainger, Prof Don)
BIO02	Zhang, Yuanmin	JES	Super-resolution imaging of pathogenic microbes	Kapanidis, Prof Achillefs	Robb, Dr Nicole
TP13	Zhang, Yujia	WAD	tbc	Barnes, Prof Michael	
TP12	Zhang, Zhijia	UNI	Anderson localisation of a Dirac particle in a random magnetic field	Roy, Dr Sthitadhi	
A&L06	Zheng, Guo	SJO	Experimental Quantum Computing in Ion Traps	Lucas, Dr David	