



Academic Internship Event (AIE) 2020

Saturday 21 November 2020

Co-organised by:

Cambridge University Scientific Society (CUSS)

Oxford University Scientific Society (OUSS)

Trinity College Science Society (TCSS)

14:00 - 14:10	Welcome Bram Lim, CUSS Co-President.
14:10 - 15:10	Session 1: <u>Summer Research Programmes</u>
14:10 - 14:20	Colin Lee Medicine, Year 4, Cambridge
	Caltech SURF Programme Colin will share about his internship under the Caltech SURF programme in summer 2019, where he performed CRISPR directed evolution.
14:20 - 14:30	Jia Jun Lee BA in Pharmacology, Graduated, Cambridge
	Université de Lausanne (UNIL) SUR Programme Jia Jun will share about his internship in Switzerland under the Université de Lausanne (UNIL) SUR programme in summer 2019, where he expressed and characterised the XPR1 protein in various cell types.
14:30 - 14:40	Gareth Hart BA in Chemistry, Year 3, Cambridge
	Faraday Undergraduate Student Experiences (FUSE) Programme Gareth spent his summer this year under the Faraday Undergraduate Student Experiences (FUSE) programme where he investigated the solid-solid interface of lithium-ion batteries.
14:40 - 14:50	Oscar Emil Sommer BA in Physics, Year 3, Cambridge
	Max Planck Institute for the Physics of Complex Systems Summer Programme Oscar took part in the summer programme this year by the Max Planck Institute for the Physics of Complex Systems, where he used IBM Quantum Computers to simulate generic many body dynamics of Open Quantum Systems
14:50 - 15:10	<u>Panel Discussion</u> Panelists: Colin, Jia Jun, Gareth, Oscar. Moderator: Bram Lim, CUSS Co-President.

15:10 - 16:30 Session 2: <u>Research Internships within Cambridge</u>		
15:10 - 15:20	Shreyas Pai	BA in Natural Sciences, Year 2, Cambridge
	Shreyas investigated transposon insertions affecting gas vesicle production in <i>Serratia</i> species in the Salmond Lab, Dept of Biochemistry, Cambridge. This internship was funded by the Society for Applied Microbiology (SfAM) Summer Student Placement Scholarship.	
15:20 - 15:30	Yansheng Zhang	BA in Natural Sciences, Year 2, Cambridge
	Yansheng modelled the mechanics of decompression sickness using hydrogels at the Dept of Applied Mathematics and Theoretical Physics (DAMTP), Cambridge.	
15:30 - 15:40	Alexander Shtyrov	BA in Natural Sciences, Year 3, Cambridge
	Alexander performed computational analysis on the firing patterns of stem cell-derived neurons grown on arrays of electrodes. This was done also at DAMTP, Cambridge.	
15:40 - 15:50	Ming-Shau Liu	BA in Mathematics with Physics, Year 2, Cambridge
	Ming-Shau wrote an educational package on helium scattering and surface physics at the Cavendish Laboratory, Cambridge.	
15:50 - 16:00	Wojciech Jankowski	BA in Physics, Year 3, Cambridge
	Wojciech worked on orbital-free density functional theory (OF-DFT) calculations performed on high-pressure solid hydrogen, in the Materials Theory Group (MTG), Dept of Materials Science, Cambridge.	
16:00 - 16:30	<u>Panel Discussion</u> Panelists: Shreyas, Yansheng, Alexander, Ming-Shau, Wojciech. Moderator: Jindřich Jelínek & Mirka Novoveská, TCSS Co-Presidents.	
16:30 - 17:00	Break	
17:00 - 17:50 Session 3: <u>Research Internships outside of Cambridge</u>		
17:00 - 17:10	Kay Shigemori	DPhil in Oncology, Year 3, Oxford
	Kay did various biological science research work all over the world including at Riken (Japan), University of Michigan (USA) and Dana-Farber Cancer Institute (USA).	
17:10 - 17:20	Megha Bhandari	Medicine, Graduated, Cambridge
	Megha did an internship on cancer genomics at the European Bioinformatics Institute (EBI) in 2017 and an epidemiology project on Covid at the Southampton University Hospital this year.	
17:20 - 17:30	Mariana Quiroga Londoño	Phd in Haematology, Year 1, Cambridge
	Mariana did research on stem cells and single-cell RNAseq analysis at the Dept of Surgery, Addenbrookes Hospital, Cambridge.	
17:30 - 17:50	<u>Panel Discussion</u> Panelists: Kay, Megha, Mariana. Moderator: Anka Lucic & Luna Li, OUSS President & VP.	

17:50 - 18:40 Session 4: Internships in Industry and Start-Ups		
17:50 - 18:00	Charlene Tang	MSc in Biochemistry, Graduated, Cambridge
	Charlene will talk about her wealth of experience working at various start-ups, including Heartfelt (evaluating heart failure tele-medicine), IQVIA (pitching a new drug market launch strategy), CJBS (XNA therapeutics) and StartCodon (due diligence analysis).	
18:00 - 18:10	Becky Reiff-Musgrove	MSc in Materials Science, Cambridge
	Becky worked at Plastometrex, which is a start-up spun out from Cambridge University, working on a novel materials testing technique.	
18:10 - 18:20	Bahdan Zviazhynski	MSc in Physics, Cambridge
	Bahdan worked at Citi, rotating across multiple asset classes, and towards the end, developed an algorithmic trading strategy for Citi.	
18:20 - 18:40	Panel Discussion Panelists: Charlene, Becky, Bahdan. Moderator: Krishna, CUSS Co-President.	
18:40 - 18:45	Closing Krishna Amin, CUSS Co-President.	