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| Russell Yang Qi Xun Physics Researcher, Project Manager & Public Speaker | | | | | | |  | Cell: +65 9750 8205  russell.yang@chch.ox.ac.uk  Christ Church, St Aldate’s  Oxford OX1 1DP | |
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| Profile |  |  | **Citizenship** Singaporean  **Languages** English, Mandarin, | | | | | | |
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| **Education** |  |  | **NUS High School**  2013 – 2018 | | | High Distinction, Overall GPA/CAP – 4.5/5.0  Honours in Physics, Major in Mathematics & Chemistry. | | | |
|  |  | **Oxford University**  **(Prospective)**  Class of 2025 | | | MPhys, Master’s in Physics  Christ Church College | | | |
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| Work History |  |  | **Research Intern**  **@A\*STAR**  Mar 2017 – Apr 2018 | | | Achieved breakthroughs in the field of Condensed Matter Physics. Reduced costs of experiments performed in the 2016 Nobel Prize by 10000 times. | | | |
|  |  | **Research Program Manager**  **@NUS High School**  Nov 2018 – Mar 2019  Nov 2020 – Mar 2021 | | | Trained students to be proficient in mathematical modelling, coding, experimental setup construction and public speaking spanning across 12 separate research projects.  Implemented team selection, project management systems & training program for future batches of research students. | | | |
|  |  | **Ammo Tech**  **@Singapore Armed Forces**  Apr 2019 – Dec 2020 | | | Received competency training in handling & maintaining high explosives for military use. | | | |
|  |  |  | **Research Assistant @National University of Singapore**  Jan 2021 – Present | | | Conducted Condensed Matter Research specifically into Non-Hermitian Hamiltonians and systems with energy dissipation  Working towards multiple publications with global Condensed Matter Physics experts | | | |
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| Awards & Grants |  |  | 2019 Defence Science Organisation Scholarship – fully funded undergraduate studies  2019 The Lee Kuan Yew Award For Mathematics & Science  2018 WSPC-ICAAS Most Outstanding JC Science Student Award (Sole winner by MOE)  2018 Intel International Science & Engineering Fair, Third Award in Physics  2018 International Young Physicists Tournament, Champion + Gold Award  2018 Singapore Science & Engineering Fair, Gold (Top 6 Projects)  2018 A\*STAR Young Researcher Award  2018 Singapore Physics Olympiad, Silver Award  2018 Singapore Young Physicist Tournament, Team Captain + Silver Award  2018 Dongrun-Yau Science Awards, Semi-finalist  2017 Singapore Young Physicist Tournament, Gold Award  2017 Singapore Junior Physics Olympiad, Silver Award  2016 Singapore Young Physicist Tournament, Silver Award  2016 Singapore Junior Physics Olympiad, Bronze Award  2015 Edusave Scholarship for Integrated Programme Schools (ESIP) |

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| Invited Conferences & Attachments |  |  | 2018 Nobel Prize Ceremony & Presentation, Invited Attendee & Country Representative  2018 Stockholm International Youth Science Seminar  2018 Sustainable Development Youth Convention SDYC (Best Position Paper)  2018 Cultural Exchange Programme with Beijing No 4 High School  2016 Beihang University Aeronautical Engineering Academic Attachment Programme | | | | |
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| Research Projects |  |  | 2017 Topological Analysis of Circuit Laplacians & Experimental Verification of  Su-Schrieffer-Heeger Topoelectrical Circuit  2018 A Detailed Analysis into the Chain that Falls Faster than Gravity  2018 On the Recursive Amplification of Friction between Interleaved Books  2018 Non-Invasive Determination of the Extent of Thermally Induced Protein  Denaturation in Eggs  2018 Free Surface Analysis of Stagnation Points in Thin Film Rimming Flow Inside of a  Horizontally Rotating Cylinder  2018 Dynamical Analysis of the Electro-Thermodynamic Curie Point Engine | | | | |
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| Publications |  | | 2020 Topological Circuits - A Stepping Stone in the Topological Revolution  2022 Designing nonhermitian real spectra through electrostatics | | | | |
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| Professional Qualifications |  | | 2019 Certificate in Generic Manufacturing Skills (WSQ - SSG Verified)  Competency Standards:  Applying Quality Systems  Applying Teamwork in the Workplace  Performing Stock Control Operations  Performing Warehouse Operations  Performing 5S Techniques  2020 Thales Group – Ammunition & Explosives Technician Certification | | | | |