

Charlene Tang

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HIGHER EDUCATION

2016 - BA MSci (Hons) Biochemistry (81.2% overall; rank: 1)

2020 Senior Scholar at Trinity College, University of Cambridge

- Mathison Prize for exemplary achievements (1 of 6 students)
- Richard Perham First Prize for highest marks in Masters examinations (73.7%)
- Alkis Seraphim Prize for the most distinguished Masters Research Project (85%)

2009 - Chelmsford County High School for Girls, Essex, UK

- 2016**
- Gold Award at 2016 British Biology Olympiad, National Finals (top 16 of 7,200 students)
 - A-levels: A*A*AA in Biology, Chemistry, Mathematics, Further Mathematics (German AS-level: A)
 - GCSEs: 14 A*s including biology, Chemistry, Physics, Maths, English, German, French, Mandarin

BUSINESS DEVELOPMENT EXPERIENCE

Jun 2020 – present Business Development Manager Cytel Ltd

- Cytel is focused on providing digital diagnostic infrastructure to revolutionise the early detection of cancer. We combine digital pathology and artificial intelligence technology with novel biomarkers to streamline clinical workflows and improve patient outcomes.
- Initiate, build and maintain commercial industry and academic research partnerships, including the Innovate UK-funded implementation pilot of the Cytosponge-TFF3 test, Project DELTA (deltaproject.org)
- Onboard healthcare providers, train clinical teams and maintain customer relationships
- Design and implement communications, marketing, and brand strategy
- Lead business development and strategy by analysing data and literature, preparing reports, and reviewing other financial and legal documents

Jan – Oct 2020 Gap Summit 2020 Conference & Competition Global Biotech Revolution

- 1 of 100 international scientists invited to tackle challenges in biotech enterprise and innovation
- In a team of 5, developed a business model and launch strategy for a multivalent aptamer design biotech, targeting the 40% of cancer patients that do not respond to immunotherapy
- 1 of 8 teams selected to pitch at the Competition Finals; awarded the Peoples' Prize
- Since secured support from the Harvard Accelerate Programme at the Harvard Business School

Jan – Jun 2020 Due Diligence Analyst Start Codon Accelerator

- Identified disruptive Life Science companies and technologies for early stage funding and coaching
- Evaluated the IP, freedom to operate, and competitor landscape of candidates on a weekly basis

Nov 2019 Strategy Consultant IQVIA, Cambridge

- In a team of 6, developed a market entry strategy for a disruptive Phase III rare disease gene therapy
- Responsible for building our value proposition, pricing analysis, and launch marketing strategy
- Awarded the top prize for our pitch and base deck, commended for our market analysis and teamwork

Sep 2019 Data Analyst Heartfelt Technologies, Cambridge

- Interviewed patients, carers, and medical professionals to evaluate their tele-monitoring device
- Wrote internal reports to communicate feedback and suggest how to improve user experience
- Wrote press-release articles for the local papers to raise awareness about their mission and technology

Aug – Dec 2019 Academy Ambassador Wisser, London

- Invited to represent and consult 12 clients including: Marshall Wace, Fidelity International, Bain & Co, EY
- Headhunted final year STEM undergraduates that match corporate values and ideal candidate skills

- Jun 2019** **Venture Create: AstraZeneca & Illumina** **Cambridge Judge Business School**
- Built a team of 5 PhD students, Post-Doctoral scientists and MBA students to research the market, develop a business model and create a pitch deck within 48 hours
 - Won both the peoples' and judges' prizes with our final pitch on our therapeutic XNA-logic platform targeting pancreatic ductal adenocarcinoma

- Dec 2018** **Women in Trading & Technology** **Jane Street, London**
- Learned the fundamentals of market making and corporate operations across trading and software
 - Shortlisted for their Business Development summer internship in New York and London

LEADERSHIP & TEAMWORK SKILLS

- 2018 – 2019** **Co-President** **The Cambridge University Scientific Society**
- Led a team of 13 to organise and host talks from 16 leading scientists across academia and industry
 - Launched, coordinated, chaired and presented at our annual Academic & Industrial Internships day event over the past 4 years (attended by over 170 Undergraduates in 2018)
- 2018 – 2020** **President & Ladies' Captain** **Trinity College Badminton Club**
- Led bi-weekly trainings for the Ladies' teams, doubled numbers and secured professional coaching
 - Coordinated weekly College matches, achieving 2nd place in Ladies League and 1st place in Mixed Cuppers
 - Invited to represent all six Men's and Ladies' teams and finances in College as 2019 President
 - Selected for Cambridge University Badminton Club Development (2018-19) and Main (2019-20) Squads
- 2017 – 2018** **Lower Boats' Captain** **First & Third Trinity College Boat Club**
- Led a team of 7 to organise and teach 120 novice rowers and coxes within the 8 weeks of term
 - Coached the 2nd men's crew up to 15 hours a week, achieving 1st and 2nd place in the final College races

COMMUNICATION & MARKETING SKILLS

- Jan – Jun 2019** **Awareness Co-ordinator** **Students for Global Health**
- Managed a team of 7 to create publicity campaigns and workshops addressing global health issues, from sleep and mental health evenings in Colleges to classes on antimicrobial resistance for Year 9 students
- 2017 – 2018** **Publicity Officer** **Trinity College Science Society**
- Developed and executed a strategy to advertise talks and events on 7 social media platforms weekly
 - Doubled the mailing list reach and talk attendance during my first term in office
 - Negotiated a venue change and hiring fee for an over-subscribed talk on short notice
- 2016 – 2017** **Founding Publicity Officer** **Students for Rare Disease**
- Selected by the Cambridge Rare Disease Network to establish the Cambridge branch
 - Worked in a team of clinical students and PhD scientists as the only Undergraduate
 - Developed and launched our social media strategy for talks and events

TEACHING EXPERIENCE

- 2017 – present** **Student Mentor & Tutor** **Various incl. Project Access UK & Access Oxbridge**
- Each year, I mentor several younger students including:
 - Sixth Formers from my school or volunteering platforms through UCAS applications, from reviewing personal statements to marking admission tests and interview-style discussions
 - Undergraduates at the University of Cambridge through the Natural Sciences degree and summer research and industrial internships, as well as PhD applications
 - Developed resources from my annual presentations on accessing higher education at my Sixth Form Bio&Chem Society and accessing academic research projects at University Science Societies

- 2017 – 2020 Student Ambassador Trinity College Access & Outreach**
- Lead volunteer on annual Summer Residentials to encourage students to consider higher education
 - On the 2018 Stonehouse residential with Villiers Park, I supervised a year 11 group project on antibiotic resistance and organised a next-day private tour of Sir Dr Venki Ramakrishnan's lab at the MRC-LMB

- 2014 – 2016 Assistant Teacher Tina Franklin's Swim School**
- Worked part-time in the evenings after Sixth form and over the weekends.
 - Provided one-on-one swimming teaching for children aged 4-11 in the pool.
 - Provided pool-side assistance during lessons of up to 10 children, with set-up and pack-up

RESEARCH EXPERIENCE

- Oct 2019 – May 2020 MSci Dissertation Professor Gerard Evan, Dept. of Biochemistry**
- Single-cell RNA-seq, RT-qPCR, immunohistochemical and flow cytometry analysis of whole lungs dissected from and primary lung epithelial cell lines established from tamoxifen-sensitive *KRas*^{G12D}; *MycER*^{T2} mice
 - Lung epithelial cell-specific transcriptional expression and antibody blockade identified IL-33 as a candidate instructive signal that is necessary for cell death and tumour regression following Myc deactivation
 - Strengthened the emerging IL-23/IL-33 signalling axis that underlies both tumour progression and regression as well as the lung-intrinsic injury resolution programme, indicating therapeutic potential

- Jun – Aug 2019 Trinity College Studentship Professor John Doorbar, Dept. of Pathology**
- Immunohistochemical analysis of keratinocyte cell lines and organotypic rafts to characterise HPV oncoprotein-mediated dysregulation of homeostatic Notch signalling in cervical epithelial neoplasia
 - Collaborated with a visiting Systems Biologist to build a computational model of this system

- Jan – Apr 2019 BA Dissertation Professor Guy Brown, Dept. of Biochemistry**
- Showed that P2Y6 receptor deficiency is partially protective against synapse loss in ageing mouse brains
 - Strengthened the hypothesis that P2Y6 receptor signalling mediates aberrant synapse loss in the aging brain and contributes to cognitive decline, as previously observed in behavioural tests
 - Independently managed my western blot analysis of proteins expressed in two mouse brain regions whilst learning techniques for immunohistochemical analysis of hippocampal brain slices by confocal microscopy

- Jun – Sep 2018 Wellcome Trust Studentship Dr Andrew Firth, Dept. of Pathology**
- Built an Excel database of transcriptional regulatory elements of +ssRNA viruses from the primary literature
 - Coded in Python to validate conserved sequence motifs proposed for the order *Mononegavirales*
 - Molecular cloning of the prototypic Equine torovirus (EToV) genome by Gibson Assembly (~30 kB)

- Jul – Sep 2017 MRC-LMB Studentship Dr Philipp Holliger, Laboratory of Molecular Biology**
- Secured a Medical Research Council Grants awarded to 10 of 40 students
 - *In vitro* evolution of a self-replicating RNA enzyme for function functional in lower Mg²⁺ concentrations
 - Enabling subsequent compartmentalisation in lipid vesicles to investigate the RNA world hypothesis
 - Coded in Python and Bash to explore Illumina sequencing data and characterise mutants

- Jul – Aug 2016 Prof. Stefan Marciniak, Cambridge Institute of Medical Research**
- Studied crosstalk between the integrated stress response and BMP signalling in MEF cell lines
 - Optimised my cell culture and western blot technique to independently manage my experimental time course as well as take responsibility for maintaining other cell lines (S2 *Drosophila*, HeLa)