Charlene Tang

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HIGHER EDUCATION

2016 - 2020 **BA MSci (Hons) Biochemistry (81.2% overall; rank: 1)**
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 - 2016 **Chelmsford County High School for Girls (CCHS), Essex, UK**

- 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** **Cyted Ltd**

- Cyted 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

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Jan – Oct 2020 **Gap Summit 2020 Finalist** **Global Biotech Revolution**

- 1 of 100 international scientists invited to tackle challenges in biotech enterprise and innovation at the virtual conference & competition
- 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 6 teams from 20 selected to pitch at the 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 launch strategy for a disruptive Phase III gene therapy for rare disease
- 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 heart failure patients and carers to evaluate user experience with the Heartfelt tele-monitoring device to predict hospitalisation
- Wrote internal reports to communicate feedback and press-release articles

Aug – Dec 2019 **Academy Ambassador** **Wiser, London**

- Invited to represent, promote, consult and recruit for 12 clients across technology, finance and consulting including: Marshall Wace, Fidelity International, Bain & Company, and EY

2018-2019 **Venture Create Competitions** **Cambridge Judge Business School**

- Over two separate weekends, I built a team of 5 PhD students, Post-Doctoral scientists and MBA students to research the market, develop a business model and strategy, and create a pitch deck within 48 hours
- Jun 2019: Won both the peoples' and judges' prizes with our oligonucleotide logic-gate platform technology for pancreatic cancer therapeutics
- Nov 2018: 1 of 12 Finalists selected for our saliva-based early diagnostic technology to monitor and predict cognitive decline and neurodegeneration with age

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

COMMUNICATION & MARKETING 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, industry and policy
- 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)

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

2016 – 2017 **President** **Bio & Chem Society at my Sixth Form**

- Revived and rebranded my Sixth Form Chemistry Society to expand in scope and access
- Organised and chaired weekly talks, including a 3-part introductory series to cancer biology and an annual workshop on Higher Education, which I have been invited back to speak at for the past 4 years

LEADERSHIP & TEAMWORK SKILLS

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
- 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

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 holding interview-style discussions

- Undergraduates at the University of Cambridge through the Natural Sciences degree and applications for summer research and industrial internships, as well as PhD research
- 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.

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

- As a first-year Undergraduate, secured MRC grant funding awarded to 10 out of 40 students that year
- *In vitro* evolution of a self-replicating RNA enzyme for function functional in lower Mg^{2+} 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)