

# Ho Yin Chau

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CONTACT INFORMATION	2540 College Ave, Apt 310 Berkeley, CA, 94704	415-638-0061 <a href="mailto:hchau630@berkeley.edu">hchau630@berkeley.edu</a>
EDUCATION	<b>University of California, Berkeley</b> , Berkeley, CA B.A. Molecular & Cell Biology (Neurobiology track), 2016 – 2020 B.A. Physics (Honors), 2016 – 2020 B.A. Mathematics, 2016 – 2020 <ul style="list-style-type: none"><li>• Minor in Computer Science</li><li>• Minor in Creative Writing</li><li>• GPA: 3.91/4.0</li></ul>	
RESEARCH EXPERIENCES	<b>Redwood Center for Theoretical Neuroscience</b> , Berkeley, CA, Spring & Fall 2019 <ul style="list-style-type: none"><li>• <b>Undergraduate Researcher</b>, working with Prof. Bruno Olshausen</li><li>• Unsupervised learning and inference in hierarchical Bayesian networks</li></ul> <b>Summer Undergraduate Research Program in Computational Neuroscience</b> , Center for the Neural Basis of Cognition, Pittsburgh, PA, Summer 2019 <ul style="list-style-type: none"><li>• <b>Participant</b>, working with Prof. Tai-Sing Lee &amp; Dr. Wenhao Zhang</li><li>• Computational modelling of ‘opposite neurons’ in MSTd</li></ul> <b>Deep Learning DeCal</b> , Machine Learning @ Berkeley, Berkeley, CA, Fall 2017 <ul style="list-style-type: none"><li>• <b>Participant</b>, collaboration with Brandon Trabucco &amp; Ani Nrusimha</li><li>• Independent research topic: “Neural Program Synthesis Using Variational GAN”</li></ul> <b>Undergraduate Research Apprentice Program</b> , UC Berkeley, Berkeley, CA, Sept 2016 – Aug 2017 <ul style="list-style-type: none"><li>• <b>Participant</b>, working with Prof. Kam-Biu Luk at the Lawrence Berkeley National Laboratory</li><li>• Calibrating cosmic muon detector, writing Monte Carlo simulations, testing liquid scintillator</li></ul>	
PREPRINTS	H.Y. Chau, W.H. Zhang, T.S. Lee, <i>Emergence of opposite neurons in a firing-rate model of multisensory integration</i> . bioRxiv 814483; doi: <a href="https://doi.org/10.1101/814483">https://doi.org/10.1101/814483</a> (preprint)	
POSTERS	H.Y. Chau, X.Y. Niu, W.H. Zhang, T.S. Lee, <i>Emergence of opposite neurons in a circuit for multisensory processing</i> . Computational and Systems Neuroscience Workshop (COSYNE) 2020, Denver, CO. Feb 27, 2020.	
SELECTED AWARDS & HONORS	<b>L. Jackson Laslett Scholarship</b> , UC Berkeley Physics, 2019 – 2020 <b>Jim and Donna Gray Award</b> , UC Berkeley Electrical Engineering & Computer Science, 2018 – 2019 <b>Olsen Memorial Fund Award</b> , UC Berkeley Physics, 2018 – 2019 <b>The Cal Hacks Fellowship</b> , Cal Hacks 4.0, 2018 <b>Dean’s Honors</b> , UC Berkeley, 2017 – 2019 <b>Hong Kong Scholarship for Excellence Scheme</b> , HKSAR Education Bureau, 2016 – 2020	
OTHER EXPERIENCES & PROJECTS	<b>Icebox</b> , Berkeley, CA, 2018 <ul style="list-style-type: none"><li>• <b>Co-founder, Software Engineer</b> (iOS developer), working with Jasmine Singh &amp; Julia Yu</li><li>• Startup in grocery management, admitted into Skydeck incubation track in summer 2018</li></ul> <b>Video Game Design and Development DeCal</b> , Game Design and Development at Berkeley, Berkeley, CA, Spring 2018 <ul style="list-style-type: none"><li>• 2D adventure PC game developed: <b>Arkangel</b></li></ul>	
COMMUNITY OUTREACH	<b>ExperiMentors</b> , Diocesan Boys’ School, Hong Kong, China, 2015 <ul style="list-style-type: none"><li>• <b>Co-founder, Secretary</b></li><li>• Non-profit student organization holding science summer camps for primary school students</li></ul>	