National University of Singapore (NUS) Aug 2016-May 2020 BEng, Mechanical Engineering Dept. (Expected graduation: Jun 2020) GPA: 4.96/5.00 Second Major in Physics GPA: 5.00/5.00 University of California, Berkeley (UC Berkeley) Jan 2019-May 2019 University of California Education Aboard Program (UCEAP) GPA: 4.00/4.00 PROFESSIONAL AND RESEARCH EXPERIENCE National University of Singapore, School of Computing Jun 2020-Jul 2021 Supervisor: Prof. Richard T.B. Ma **Position:** Research Assistant Machine learning Apache Flink stream processing system. Analytically analyzed the Lyapunov stability of idealized network structures. University of California, Berkeley (UC Berkeley) Jan 2019-May 2019 Supervisor: Prof. Jyh-Yuan Chen

Numerical study of how prechamber combustion helps with the IC engine efficiency

SELECTED PUBLICATIONS, AWARDS, AND EXPERIENCES

- Science and Technology Undergraduate Scholarship, Singapore, Jul 2015 Jun 2020.
- Dean's list (obtained for all eligible semesters), National University of Singapore, 2017-2020.
- Chen, S., Ingersoll, A., P., and Li, C. (2023). Shallow water investigation on the genesis of Jupiter's polar cyclones. Manuscript submitted to JFM Rapids.
- Chen, S., Zeng, Z., Natraj, V., and Yung, Y. Machine learning-based aerosol characterization using OCO-2 O2 Aband observations. (2022). Journal of Quantitative Spectroscopy and Radiative Transfer.
- Chen, S., Young, E., F., Young, A., L, et al. (2019). Global Climate Model Occultation Lightcurves Tested by August 2018 Ground-Based Stellar Occultation. Icarus.

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