

Chengyu Dong

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| Education | Ph.D. in Computer Science , Machine Learning & Data Mining Jacobs School of Engineering, University of California, San Diego | Sept. 2021 - present |
| | M.S. in Computer Science , Artificial Intelligence Jacobs School of Engineering, University of California, San Diego | Sept. 2018 - June 2020 |
| | M.S. in Astrometry and Celestial Mechanics , Solar System Dynamics School of Astronomy & Space Science, Nanjing University | Sept. 2016 - Aug. 2018 |
| | B.S. in Astronomy Kuang Yaming Honors School, Nanjing University | Sept. 2012 - June 2016 |
| Experience | Data Mining Group @ University of California, San Diego Computational and Data Science Research Specialist. Advisor: Prof. Jingbo Shang | July 2020 - June 2021 |
| | Data Mining Group @ University of California, San Diego Research Assistant. Advisor: Prof. Jingbo Shang | Oct. 2019 - June 2020 |
| | Intelligent Big Data Visualization Lab @ Tongji University Research Assistant. Advisor: Prof. Nan Cao | July - Sept. 2019 |
| | Data Analysis and modeling group @ Beijing Iminer Data Technology Co., Ltd. Data Analyst Intern | July - Aug. 2018 |
| | Data Evaluation Group @ Baidu, Inc. Data Analyst Intern | May - June 2018 |
| | Innovation Center for Data Science @ Southern University of Science and Technology Research Assistant. Advisor: Prof. Zhihong Xia | Jan. - Mar. 2018 |
| | Solar System Dynamics Group @ Nanjing University Research Assistant. Advisor: Prof. Liyong Zhou | Sept. 2016 - Aug. 2018 |
| | Planetary Science Group @ Chinese Academy of Sciences Research Assistant. Advisor: Prof. Jun Cui | July - Aug. 2016 |
| | SHAO Galaxies Group @ Chinese Academy of Sciences Research Assistant. Advisor: Prof. Juntai Shen | Mar. - June 2016 |
| Publication | Chengyu Dong , Liyuan Liu and Jingbo Shang. Double Descent in Adversarial Training: An Implicit Label Noise Perspective. <i>arXiv:2110.03135</i> . | |
| | Chengyu Dong , Liyuan Liu and Jingbo Shang. Data Quality Matters For Adversarial Training: An Empirical Study. <i>arXiv:2102.07437</i> . | |
| | Zichao Li, Dheeraj Mekala, Chengyu Dong and Jingbo Shang. BFCClass: A Backdoor-free Text Classification Framework. <i>Findings of EMNLP 2021</i> . | |
| | Chengyu Dong , Liyuan Liu, Zichao Li and Jingbo Shang. Towards Adaptive Residual Network Training: A Neural-ODE Perspective. <i>ICML 2020</i> . | |
| | Zichao Li, Liyuan Liu, Chengyu Dong , and Jingbo Shang. Overfitting or Underfitting? Understand Robustness Drop in Adversarial Training. <i>arXiv:2010.08034</i> . | |

Zihan Wang, **Chengyu Dong** and Jingbo Shang. Average Approximates First Principal Component? An Empirical Analysis on Representations from Neural Language Models. *EMNLP 2021*.

Chengyu Dong, Liyong Zhou. On the Close Encounters between Plutinos and Neptune Trojans: I, II. *arXiv:1806.10651*.

Chengyu Dong, Liyong Zhou. The Frequency of Close Encounters and Collisions between Plutinos and Neptune Trojans. *Progress in Astronomy*. 2019.

Niu D-D, Cui J, Gu H, **Dong C-Y**, Zhou L-Y, A. Wellbrock, Jiang F-Y, Xu X-J. A test particle Monte Carlo investigation of the CH₄ torus around Saturn. *The Astronomical Journal*. 2019.

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| Oral presentations | The 37th International Conference on Machine Learning | July 2020 |
| | International Symposium on Lunar and Planetary Science (ISLPS 2018), Macau | June 2018 |
| | The 4th Symposium on Present and Future of Fundamental Astronomy, Hubei | June 2018 |
| Teaching | Introduction to Machine Learning (CSE 151A) | Spring 2021 |
| Service | Reviewer: ICML 2021, NIPS 2021, ICLR 2022 | |
| Awards | Scholarship of National Astronomical Observatories | 2015 |
| | Academic Scholarship, 1 st prize | 2016, 2017 |
| | Zhenggang Scholarship, top 40 graduate students in Nanjing University | 2017 |
| | Outstanding Student Leader, Nanjing University | 2017 |