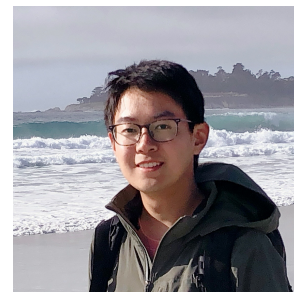


Xiaohang Chen



Postdoctoral Research Fellow
State Key Laboratory of Lunar and Planetary Sciences
Macau University of Science and Technology, Macau 999078, China
Email: xhchen@must.edu.mo

EDUCATION

University of Arizona

Ph.D. in Planetary Science
Advisor: Joe Giacalone

Tucson, AZ, US

08/2018 – 12/2023

Beihang University

B.S. in Astronautics
Advisor: Huishan Fu

Beijing, China

08/2014 – 05/2018

RESEARCH EXPERIENCE

Macau University of Science and Technology

Postdoctoral Research Fellow
Advisor: Gang Li

Macau, China

05/2025 – present

University of Michigan

Postdoctoral Research Fellow
Advisor: Lulu Zhao

Ann Arbor, MI, US

01/2024 – 12/2024

University of Arizona

Graduate Research Assistant
Advisor: Joe Giacalone

Tucson, AZ, US

08/2018 – 12/2023

Los Alamos National Laboratory

Research Intern
Advisor: Fan Guo

Los Alamos, NM, US

05/2022 – 08/2022

Harvard-Smithsonian Center for Astrophysics

Research Intern
Advisor: Federico Fraschetti

Cambridge, MA, US

05/2022

Beihang University

Undergraduate Research Assistant
Advisor: Huishan Fu

Beijing, China

08/2016-05/2018

TEACHING EXPERIENCE

University of Arizona

Graduate Teaching Assistant
Course: The Universe and Humanity: Origin and Destiny (PTYS/ASTR 170B2)
Lecturer: Tommi Koskinen

Tucson, AZ, US

Fall 2019

PUBLICATIONS

Chen, X., L. Zhao, J. Giacalone, et al., Evidence of Time-Dependent Diffusive Shock Acceleration in the September 5, 2022 Solar Energetic Particle Event. (Submitted to ApJ)

Zhang, J., J. Giacalone, **X. Chen**, L. K. Jian, and K. G. Klein (2025), Parker Solar Probe Observations of Turbulence and Waves Between a Current Sheet and an ICME-driven Shock. ApJ (In press)

Liu, W., I. Sokolov , L. Zhao , T. Gombosi , **X. Chen**, et al. (2025), Physics-based Simulation of the 2013 April 11 Solar Energetic Particle Event. ApJ, 985, 82. DOI:[10.3847/1538-4357/adc4e3](https://doi.org/10.3847/1538-4357/adc4e3).

Kouloumvakos, A., N. Wijsen, A. Afanasiev, et al. (2025), Shock and SEP Modeling Study for the 5 September 2022 SEP Event. ApJ, 979, 100. DOI:[10.3847/1538-4357/ada0be](https://doi.org/10.3847/1538-4357/ada0be).

Chen, X., J. Giacalone, F. Guo and K. G. Klein (2024), Parallel Diffusion Coefficient of Energetic Charged Particles in the Inner Heliosphere from the Turbulent Magnetic Field Measured by Parker Solar Probe. ApJ, 965, 61. DOI:[10.3847/1538-4357/ad33c3](https://doi.org/10.3847/1538-4357/ad33c3).

Giacalone, J., C. M. S. Cohen, D. J. McComas , **X. Chen**, et al. (2023), Analyses of ~ 0.05 -2 MeV ions associated with the 2022 February 16 ESP Event Observed by Parker Solar Probe. ApJ, 958, 144. DOI:[10.3847/1538-4357/acfb86](https://doi.org/10.3847/1538-4357/acfb86).

Chen, X., J. Giacalone, and F. Guo (2022), Solar Energetic Particle Acceleration at a Spherical Shock with the Shock Normal Angle θ_{Bn} Evolving in Space and Time. ApJ, 941(1), 23. DOI:[10.3847/1538-4357/ac9f43](https://doi.org/10.3847/1538-4357/ac9f43).

Wang, Z., H. Fu, **X. Chen**, J. Cao, Y. Liu, Y. Yu, R. He, and Z. Guo (2022), The Effect of Current on Magnetic Null Topology during Turbulent Reconnection. ApJ, 927(1), 119. DOI:[10.3847/1538-4357/ac4eed](https://doi.org/10.3847/1538-4357/ac4eed).

Giacalone, J., Mitchell, D. G., Allen, R. C., Hill, M. E., McNutt, R. L., Szalay, J. R., Desai, M. I., Rouillard, A. P., Kouloumvakos, A., McComas, D. J., Christian, E. R., Schwadron, N. A., Wiedenbeck, M. E., Bale, S., Brown, L. E., Case, A., **Chen, X.**, et al. (2020), Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at ~ 0.25 au. ApJS, 246(2), 29. DOI:[10.3847/1538-4365/ab5221](https://doi.org/10.3847/1538-4365/ab5221).

Fu, H., Z. Wang, Q. Zong, **X. Chen**, J. He, A. Vaivads, and V. Olshevsky (2020), Methods for Finding Magnetic Nulls and Reconstructing Field Topology: A Review. In Dayside Magnetosphere Interactions (eds Q. Zong, P. Escoubet, D. Sibeck, G. Le and H. Zhang). DOI:[10.1002/9781119509592.ch9](https://doi.org/10.1002/9781119509592.ch9).

Chen, X., H. Fu, C. Liu, D. Cao, Z. Wang, M. Dunlop, Z. Chen, and F. Peng (2017), Magnetic nulls in the reconnection driven by turbulence. ApJ, 852(1), 17. DOI:[10.3847/1538-4357/aa9991](https://doi.org/10.3847/1538-4357/aa9991).

AWARDS & HONORS

Group Achievement Award - Parker Solar Probe Team <i>National Aeronautics and Space Administration (NASA)</i>	2023
Galileo Circle Scholarship <i>University of Arizona</i>	2023
Curson Travel Award <i>Lunar and Planetary Laboratory, University of Arizona</i>	2022
Galileo Circle Scholarship <i>University of Arizona</i>	2020