

## Suoqing Ji

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EDUCATION **University of California Santa Barbara**, Santa Barbara, California USA **2013 – current**  
Ph.D. Candidate, Theoretical Physics  
• Advisor: Peng Oh  
M.A., Physics, June 2015

**University of Massachusetts Dartmouth**, Dartmouth, Massachusetts USA **2011 – 2013**  
M.S., Physics, June 2013  
• Dissertation Title: *The Magnetic Evolution of Binary White Dwarf Merger Remnants*  
• Advisor: Robert Fisher

**Anhui Jianzhu University**, Hefei, Anhui China **2007 – 2011**  
B.S. with Honors, Physics, June 2011

SELECTED HONORS **Burke Postdoctoral Fellowship**, Walter Burke Institute for Theoretical Physics, Caltech **2018**  
AND AWARDS **Best Presentation**, Graduate Simulation Seminar Series, UCSB **2017**  
**Worster Fellowship**, Department of Physics, UCSB **2015 & 2017**  
**1st Place in Art of Science Competition**, UCSB **2016**  
**Paxton Fellowship**, Kavli Institute for Theoretical Physics, UCSB **2014**  
**National Scholarship**, Ministry of Education of China **2010**

STUDENTS **Neeraj Kulkarni** (UCSB) **2017 – current**  
(Co)ADVISED *on cold gas shattering in galaxy halos (supported by the Worster Fellowship)*  
**Phillip Masterson** (UCSB) **2016 – current**  
*on turbulent mixing layer and cosmic ray heated front*  
**Ethan Nadler** (UCSB → Physics PhD program, Stanford University) **2015 – 2016**  
*on power-law of CDM halo profiles (supported by the Worster Fellowship)*

PROFESSIONAL **yt Project Member** **2014 – current**  
SERVICE Contributed to visualization functionalities including volume rendering in yt, which is a python package for analyzing and visualizing volumetric, multi-resolution data from astrophysical simulations and radio telescopes.

PUBLICATIONS S. Ji, P. Masterson, and S. P. Oh, *Non-equilibrium Ionization in Magnetized Turbulent Mixing Layers*, in prep.  
S. Ji, S. P. Oh, and M. McCourt, *The Impact of Magnetic Fields on Thermal Instability*, accepted by Monthly Notices of Royal Astronomical Society.  
E. O. Nadler, S. P. Oh, and S. Ji, *On the Apparent Power Law in CDM Halo Pseudo Phase Space Density Profiles*, Monthly Notices of Royal Astronomical Society, 470, 500, 2017.  
R. Kashyap, R. Fisher, E. García-Berro, G. Aznar-Siguán, S. Ji, and P. Lorén-Aguilar, *One-Armed Spiral*

*Instability in Double-Degenerate Post-Merger Accretion Disks*, *Astrophysical Journal*, 840, 16, 2017.

S. Ji, S. P. Oh, M. Ruzkowski, and M. Markevitch, *The Efficiency of Magnetic Field Amplification at Shocks by Turbulence*, *Monthly Notices of Royal Astronomical Society*, 463, 3989, 2016.

D. van Rossum, R. Kashyap, R. Fisher, R. T. Wollaeger, E. García-Berro, G. Aznar-Siguán, S. Ji, and P. Lorén-Aguilar, *Light Curves and Spectra from a Thermonuclear Explosion of a White Dwarf Merger*, *Astrophysical Journal*, 827, 128, 2016.

R. Kashyap, R. Fisher, E. García-Berro, G. Aznar-Siguán, S. Ji, and P. Lorén-Aguilar, *Spiral Instability Drives Thermonuclear Detonations in Binary White Dwarf Mergers*, *Astrophysical Journal Letters*, 800, L7, 2015.

S. Ji, R. Fisher, E. García-Berro, P. Tzeferacos, G. Jordan, D. Lee, P. Lorén-Aguilar, P. Cremer, and J. Behrens, *The Post-Merger Magnetized Evolution of White Dwarf Binaries: The Double-Degenerate Channel of Sub-Chandrasekhar Type Ia Supernovae and the Formation of Magnetized White Dwarfs*, *Astrophysical Journal*, 773, 136, 2013.