Zhuo Chen

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EDUCATION	University of Rochester, Rochester, New York, USA		
	■ Ph.D. in Astronomy	Jan 2014 – Aug 2018	
	Thesis: Evolution of symbiotic binariesAdviser: Prof. Adam Frank		
	Focus: Radiation transfer, hydrodynamics, equation of state		
	■ M.A. in Physics	Jan 2014 – Mar 2016	
	 M.Sc. in Mechanical Engineering 	Aug 2012 – Mar 2014	
	• Focus: GPU Poisson solver (using C++)		
	Tongji University, Shanghai, China		
	■ B.Sc. in Engineering Mechanics	Sep 2007 – Jul 2012	
ACADEMIC INTERESTS	High performance computing, binary evolution, galaxy evolution, MHD, radiation transfer		
PUBLICATIONS	S JOURNALS		
	[1] Zhuo Chen, Adam Frank, Eric G. Blackman and Jason Nordhaus, "The creation of AGB fallback shells," <i>MNRAS</i> , vol. 457, issue. 3, pp. 3219–3224, Apr 2016.		
	[2] *Zhuo Chen, Jason Nordhaus, Adam Frank, Eric G. Blackman and Bruce Balick, "Three-dimensional hydrodynamic simulations of L2 Puppis," <i>MNRAS</i> , vol. 460, issue. 4, pp. 4182–4187, Aug 2016.		
	[3] *Zhuo Chen, Adam Frank, Eric G. Blackman, Jason Nordhaus and Jonathan Carroll-Nellenback, "Mass transfer and disc formation in AGB binary systems," <i>MNRAS</i> , vol. 468, issue. 4, pp. 4465–4477, Jul 2017.		
	[4] *Zhuo Chen, Eric G. Blackman, Jason Nordhaus, Adam Frank and Jonathan Carroll-Nellenback, "Wind-accelerated orbital evolution in binary systems with giant stars," <i>MNRAS</i> , vol. 473 issue 1 pp. 747–756 Jan 2018.		
	CONFERENCES		
	[1] Zhuo Chen, Adam Frank, Eric G. Blackman, Jason Nordhaus and Jonathan Carroll-Neller "Mass transfer in asymptotic-giant-branch binary systems," in <i>Proceedings of the Interna Astronomical Union</i> , Beijing, China, Oct 2016.		
AWARDS &	 Horton Fellowship, University of Rochester 	2014 – 2018	
SCHOLARSHIPS	■ Travel grant, IAUS323 "Planetary Nebulae"	Oct 2016	
	■ Best student presentation award, IAUS323 "Planetary Nebulae"	Oct 2016	
PROFESSIONAL	■ Reviewer of Astronomy & Astrophysics	2017 – Present	
SERVICE & ACTIVITIES	■ Reviewer of <i>Holiday House</i> for children's books in astronomy	2016 – Present	
TEACHING	■ TA in electromagnetic theory, University of Rochester	2014	
EXPERIENCE	■ TA in statistical mechanics, University of Rochester	2015	
CO-PI	 Hubble Space Telescope Cycle 25 		
	Unveiling hidden companions in post-AGB stars: 3D simulations	2017 2010	

2017 - 2018

of evolved star binaries

TALKS	■ Princeton University, USA	Sep 2017
	■ Columbia University, USA	Sep 2017
	Cornell University, USA	Oct 2017
	 Max Planck Institute f ür Astrophysics, Deutschland 	Jan 2018
	■ Tsinghua University, China	Mar 2018
PRESENTATIONS	 Poster presentation "From binary star to bipolar outflows with circumstellar disk", 	
IN CONFERENCES	Leiden University, Netherlands	Jan 2016
	 Poster presentation, "Mass transfer and disc formation in AGB binary systems", 	
	Peking University, China	Oct 2016
	• Oral presentation "Wind-accelerated orbital evolution in binary systems with giant stars",	
	HongKong, China	Dec 2017
SKILLS	 Very good: Fortran, C, C++, MPI, OpenMP, Python, Mathematica, MATLAB, RADMC3D, AstroBEAR, Visit, git Good: GPU, MESA, HDF5, Unix, yt 	
	• Acquainted: GIZMO, AREPO, ATHENA	
	- Acquainteu. Gizivio, Artifeiva	
REFERENCES	■ Professor Adam Frank	

Professor Adam Frank

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■ Professor Eric G. Blackman

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Professor Jason Nordhaus

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[CV compiled on 2018-03-03]