R. MICHAEL JENNINGS

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EDUCATION

Johns Hopkins University - Baltimore, MD

Aug 2021 -

PhD Astronomy and Astrophysics (Candidate)

Advisors: Alaina Henry, Tim Heckman

University of California, Berkeley - Berkeley, CA

Aug 2018 - May 2021

B.A. Physics, B.A. Astrophysics

Advisors: Yuan Li, Eugene Chiang, Eliot Quataert

GPA: 3.725 Honors

Diablo Valley College - Pleasant Hill, CA

Jan 2016 - Jul 2018

A.S. Physics, A.S. Mathematics

Cert. of Acheivement C++ Programming, Cert. of Acheivement Japanese Language

GPA: 3.835 Honors

PUBLICATIONS

Astrophysics Data System ♦ arXiv

citations: 20 first authored

- [3] Jennings, R. M.; Henry, A.; Observational Effects on Leaky Galaxy Spectra: Using Cosmological Galaxy Simulations to Constrain Lyman Continuum Escape Fraction Measurements, in-prep (2022)
- [2] Jennings, R. M.; Chiang, E.; Primordial Obliquities of Brown Dwarfs and Super-Jupiters from Fragmenting Gravito-Turbulent Discs, MNRAS (2021), arXiv:2105.12160
- [1] Jennings, R. M.; Li, Y.; Thermal Instability and Multiphase Gas in the Simulated Interstellar Medium with Conduction, Viscosity and Magnetic Fields, MNRAS (2021), arXiv:2012.05252

TALKS, POSTERS AND OTHER WRITINGS

- [7] Simulating Super-Jupiter Obliquities, UC Berkeley, February 2021. (talk)
- [6] Thermal Instability and Mechanisms for Small Cloud Production, Center for Computational Astrophysics, February 2021. (talk)
- [5] Thermal Instability and Multiphase Gas in the ISM, University of North Texas, January 2021. (talk)
- [4] Lee, M.; Jennings, R. M.; Large Scale Structure Evolution With Various Cosmologies: Exploring Particle Mesh Cosmological Simulations, ASTRON C161 Final Project, Berkeley, CA, May 2020. (class project)
- [3] Sunseri, J.; Tausik, N.; Zezulka, S.; Wellnitz, G.; Lera, I.; Deak, B.; Chan, T. Y.; **Jennings, R. M.**; Computational Analysis of Mixing Layers in the Interstellar Medium, ULab poster session, Berkeley, CA, May 2020. (poster)
- [2] Jennings, R. M.; Li, Y.; Quataert, E.; Thermal Instability In The Interstellar Medium And The Implementation of Anisotropic Conduction in Athena++, Astronomy Poster Summer Intern Symposium, Berkeley, CA, August 2019. (poster)
- [1] Mo, S.; Raizada, S.; Ott, J.; Dicks, P.; Kofford, S.; **Jennings, R. M.**; *Interplanetary Radiation Harnessing Voltaic System*, ULab poster session, Berkeley, CA, May 2019. (poster)

SKILLS

Computer Languages Parallel Computing	C/C++, Python, Linux/Unix, LATEX, bash,	git, ADQL, HTML, CSS MPI, OpenMP
Software	Ath	ena/Athena++, Enzo, yt
	NASA Pleiades, Berkeley Research Computing (BRC) Savio, NERSC C	
AWARDS AND SCHOLA	RSHIPS	
Dorothea Klumpke Rob	perts Prize (UCB)	2021
For outstanding scholarly	achievement by either an upper-level undergraduate	
student, or an outstanding	ng graduate student early in his/her research career.	
James Monroe McDonald Scholarship		2020-2021
Ensign-Hornbeck Scholarship		2020-2021
DLMC Foundation Scholarship		2020-2021
George A. Douglass Scholarship		2019-2021
Albert L. Ehrman Memorial Scholarship		2019-2020
Odell Wilson Scholarship		2019-2020
ΓEACHING AND WORK	EXPERIENCE	
Teaching Assistant, Ger Johns Hopkins University	neral Physics: Physical Science Majors II	Sept 2021 - Dec 2021
Teaching Assistant, General Physics Laboratory I Johns Hopkins University		Sept 2021 - Dec 2021
Mentor, ULab Theoretical Astrophysics Group University of California, Berkeley		Sept 2019 - May 2020
Mentor, ULab Particle Physics Group University of California, Berkeley		Sept 2018 - May 2019
Technician, Physics Laboratory Diablo Valley College		Feb 2017 - Jun 2018
Astronomy Tutor, Physical Science Department Diablo Valley College		Aug 2016 - May 2018
SERVICE AND OUTREA	СН	
Observatory Deck Docent and Telescope Operator		Aug 2017 - Dec 2017

Chabot Space and Science Center, Oakland

REFERENCES

Yuan Li

Professor - Department of Physics, University of North Texas $\,$

Email: yuan.li@unt.edu

Eugene Chiang

Professor - Department of Astronomy & Department of Earth and Planetary Science, UC Berkeley

Email: echiang@astro.berkeley.edu

Mariska Kriek

Professor - Department of Astronomy, UC Berkeley

Email: mkriek@berkeley.edu