JOEL C. ZINN

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Research Associate
School of Physics, University of New South Wales
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EDUCATION

Ohio State University
Ph.D. in Astronomy — *August 2014 – May 2019*
M.S. in Astronomy — *December 2016*

Princeton University
B.A. in Astrophysical Sciences, magna cum laude — *June 2013*
Minor in Theatre

PUBLICATIONS (ADS)

Zinn, J. C.; Pinsonneault, M. H.; Huber, D.; Stello, D.; Stassun, K; Serenelli, A., *Testing the radius scaling relation with* Gaia *DR2 in the* Kepler *field*, ApJ, 2019, submitted

Zinn, J. C.; Pinsonneault, M. H.; Huber, D.; Stello, D. *Confirmation of the* Gaia *DR2 parallax zero-point offset using asteroseismology and spectroscopy in the* Kepler *field*, ApJ, Volume 878, Issue 2, (2019) (arXiv:1805.02650)

Sharma, S.; Stello, D.; Bland-Hawthorn, J.; Hayden, M. R.; **Zinn, J. C.**; (+ 32 additional authors), *The* K2-*HERMES survey: age and metallicity of the thick disk*, MNRAS, 2019, submitted

Zinn, J. C.; Stello, D.; Huber, D.; Sharma, S., *Bayesian Asteroseismology data Modeling Pipeline and its application to* K2 *data*, ApJ, 2018, submitted.

Buder, S.; (+ 40 additional authors); **Zinn, J. C.**; and Žerjal, M., *The GALAH survey: second data release*, MNRAS, Volume 478, Issue 4, 2018 (arXiv:1804.06041)

Hon, M.; Stello, D.; and **Zinn, J. C.**, *Detecting solar-like oscillations in red giants with deep learning*, ApJ, Volume 859, Issue 1, 2018 (arXiv:1804.07495)

Abolfathi, B.; (+ 345 additional authors); **Zinn, J. C.**; and Zou, H., *The fourteenth data release of the Sloan Digital Sky Survey: first spectroscopic data from the Extended Baryon Oscillation Spectroscopic Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment*, ApJS, Volume 235, Issue 2, 2018 (arXiv:1707.09322)

Albareti, F. D.; (+ 341 additional authors); **Zinn, J. C.**; and Zou, H., *The 13th data release of the Sloan Digital Sky Survey: first spectroscopic data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory*, ApJS, Volume 233, Issue 2, 2017 (arXiv:1608.02013)

Zinn, J. C.; Huber, D.; Pinsonneault, M. H.; Stello, D., *Evidence for spatially-correlated Gaia parallax errors in the* Kepler *field*, ApJ, Volume 844, Issue 2, 2017 (arXiv:1706.09416)

Huber, D.; **Zinn, J. C.**; et al. (+ 18 additional authors) *Asteroseismology and* Gaia*: testing scaling relations using 2200* Kepler *stars with TGAS parallaxes*, ApJ, Volume 844, Issue 2, 2017 (arXiv:1705.04697)

Zinn, J. C.; Kochanek, C. S.; et al. (+ 12 additional authors), *Variable classification in the LSST era: exploring a model for quasi-periodic light curves*, MNRAS, Volume 468, Issue 2, 2017 (arXiv:1612.04834)

Kennedy, M. R.; Callanan, P.; Garnavich, P. M.; Fausnaugh, M.; **Zinn, J. C.**, XMM-Newton *observations of the peculiar cataclysmic variable Lanning 386: X-ray evidence for a magnetic primary*, MNRAS, Volume 466, Issue 2, 2017 (arXiv:1612.04397)

Stello, D.; **Zinn, J. C.**; et al. (+ 12 additional authors), *The* K2 *Galactic Archaeology Program Data Release 1: asteroseismic results from Campaign 1*, ApJ, Volume 835, Issue 1, 2017 (arXiv:1611.09852)

More, A.; Oguri, M.; Kayo, I.; **Zinn, J. C.**; et al. (+ 14 additional authors), *The SDSS-III BOSS quasar lens survey: discovery of 13 gravitationally lensed quasars*, MNRAS, Volume 456, Issue 2, 2016 (arXiv:1509.07917)

Slepian, Z.; Gott, R.; and **Zinn, J. C.**, *A one-parameter formula for testing slow-roll dark energy: observational prospects*, MNRAS, Volume 438, Issue 3, 2014 (arXiv:1301.4611)

(+ 493 additional authors); **Zinn, J. C.**, *The ninth data release of the Sloan Digital Sky Survey: first spectroscopic data from the SDSS-III Baryon Oscillation Spectroscopic Survey*, ApJS, Volume 203, Issue 2, 2012 (arXiv:1207.7137)

PROFESSIONAL SERVICES, ACTIVITIES, AND RECOGNITION

AAS Doxsey Travel Prize *2019*

Ann S. Tuttle Citizenship, Engagement, and Outreach Prize *2018*

Kavli Institute for Theoretical Physics Graduate Fellowship *2019*

Junior Member, American Astronomical Society *2016 – Present*

RECENT PRESENTATIONS

AAS 233 *January 2019*
Self-consistent radius and distance scales from red giant asteroseismology using K2*,* Kepler*, and* Gaia

SDSS-IV Collaboration Meeting *June 2018*
*APOKASC-*Gaia *self-consistency, Round II: mutually testing scaling relations and parallax systematics with the second data releases of APOKASC and* Gaia (contributed talk)

Galactic Archaeology, *Kepler* & *K2* Science Conference IV *June 2017*
Mind the GAP: a 360 degree view of the Galaxy with the K2 *Galactic Archaeology Program* (contributed talk)

Galactic Archaeology with *Kepler* and *K2*, AAS 229 *January 2017*
K2 *red giant asteroseismology with Bayesian Asteroseismology data Modeling (BAM)* (**invited talk**)

PUBLIC OUTREACH

Show presenter and designer, Ohio State University planetarium *2014 – 2019*

Organizer, Astronomy on Tap (informal lectures at local bars) *2015 – 2016*

TEACHING AND MENTORING

Life in the universe, Head lab instructor, Ohio State University *2014*

Krisann Stephany, Ohio State University Astronomy undergrad *May 2018 – Present*
Supervised her development of a planetarium show, "Origin of the elements", and aligning its content to national education standards. Collaborated with local teachers for her to create and implement a middle school module based on the show.

OBSERVING EXPERIENCE

LBT Observatory, Large Binocular Telescope *June 2016*
Instrument: Multi-Object Double CCD Spectrograph/Imager; Large Binocular Camera; LUCI (infrared spectrograph/imager)
Description: Ohio State queue observing — **88 hours**

MDM Observatory, 2.4m Hiltner Telescope *September 2015*
Instrument: Ohio State Multi-Object Spectrograph (Blue)
Description: Ohio State queue observing — **88 hours**

MDM Observatory, 2.4m Hiltner Telescope *June 2015*
Instrument: Ohio State Multi-Object Spectrograph (Red)
Description: Deep imaging and spectroscopy of lens candidates, **Principal Investigator — 24 hours**

PROFESSIONAL SERVICES AND ACTIVITIES

Junior Member, American Astronomical Society *2016 – Present*

Member, Sigma Xi *2013 – Present*

TECHNICAL STRENGTHS

Languages	Python, bash, IDL, Cython, Fortran, HTML
Tools	Latex, Emacs, Starry Night, Scidome, git