

Yaguang Li / 李亚光

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Fields of Interest

- Stellar interior physics with asteroseismology as the primary diagnostic
- Galactic structure and evolution traced by stellar populations
- Characterization of exoplanet host stars and star-planet interactions

Professional Appointments

Beatrice Watson Parrent Fellow University of Hawai'i at Mānoa, USA (Host: Daniel Huber)	Jul 2023 – present
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Education

PhD Astrophysics University of Sydney, Australia (Advisor: Timothy R. Bedding)	Oct 2019 – Jun 2023
BS & MS Astronomy Beijing Normal University, China (Advisor: Shaolan Bi)	Jun 2013 – Jun 2019
Dual BA English Literature Beijing Normal University, China	Jun 2014 – Jun 2017

Funding

TESS Cycle 8 General Investigator , PI, \$90,000 (deemed selectable pending NASA funding availability)	2025
TESS Cycle 7 General Investigator , PI, \$80,000	2024
NASA Keck Time Award , PI, \$19,100	2024
Beatrice Watson Parrent Fellowship , PI, \$261,000	2023

Publication Summary

Summary: 11 first-author papers. 24 significant contributions (incl. 5 student-led work). 80 total publications. H-index 18.

Full bibliography: [ADS]. ORCID: 0000-0003-3020-4437

See the list of publication at the end.

Student Advising

As Main Advisor

Ailee Knauff (undergraduate): Testing the ℓ -dependence of mode lifetimes → first-author paper in preparation, talk selected at AAS247	2025
Camille Chiu (REU): Constraining RGB mass loss with wide binaries → first-author paper in preparation, poster presented at AAS245	2024

Co-advising with Prof. Daniel Huber at U Hawai'i

Ian Berry (PhD): Characterizing δ Scuti pulsators with the TESS mission	2024 – present
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Co-advising with Prof. Tim Bedding at U Sydney

Lea Schimak (PhD): Asteroseismology of red giants in wide binaries	2024 – present
Yingxiang Wang (PhD): Asteroseismology of Kepler and TESS red giants	2023 – present
Sreenivas K.R. (PhD): Developing pipelines for measuring stellar properties	2022 – present
Yifan Chen (Special Science Project): Measuring p-mode oscillation parameters of red giants	2022
Alexander Jephtha (Special Science Project): Searching for oscillating red giant wide binaries	2022
Cameron Davidson (Special Science Project): Asteroseismology of very low-mass red giants	2022
Bowen Tian (Summer): Asteroseismology of δ Sct stars	2022

Dion Marks (Honours): Very low-mass red clump star KIC11502092	2021
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Talks, Seminars, and Colloquia

Ohio State University Stars Meeting , Columbus, OH, USA	2025
Columbia University Lunch Talk , New York City, NY, USA	2025
Harvard University Planets Group Meeting , Boston, MA, USA	2025
Yale Stars and Planets Seminar , New Haven, CT, USA	2025
ET2.0 Science Workshop Online	2025
KU Leuven Stars Group Meeting Leuven, Belgium	2025
TASC9/KASC16 Workshop , Vienna, Austria	2025
University of Wyoming Workshop , Laramie, WY, USA	2025
TASC8/KASC15 Workshop , Porto, Portugal	2024
Tsung-Dao Lee Institute Seminar , Shanghai, China	2024
Shanghai Observatory Seminar , Shanghai, China	2024
California Institute of Technology Seminar , Pasadena, CA, USA	2024
TASC7/KASC14 Workshop , Hawai'i, HI, USA	2023
Tsinghua University , Beijing, China	2023
Beijing Normal University , Beijing, China	2023
University of Hawai'i , Honolulu, HI, USA	2023
LAMOST User Workshop , Beijing, China	2023
Munich Institute for Astro-, Particle and BioPhysics , Munich, Germany	2023
TASC6/KASC13 Workshop , Leuven, Belgium	2022
Good Vibrations Seminar , Online	2022
MW-Gaia Workshop , Aarhus, Denmark	2022
8th Iberian Meeting on Asteroseismology , Online	2021
ICRAR's Weekly Seminar, Curtin University , Perth, Australia	2021
NAOC, Solar and Stellar Physics Seminar , Beijing, China	2021
SfA Morning Tea , Sydney, Australia	2020

Honors & Awards

Henry Chamberlain Russell Prize in Astronomy (Research) , Sydney	2024
Charlene Heisler Prize Highly Recommended , ASA	2024
Beatrice Watson Parrent Fellowship , Hawai'i	2023
Postgraduate Research Support Scheme , Sydney	2022
Research Training Program International Scholarship , A\$35,000/yr, Sydney	2021
Faculty of Science Dean's International Scholarship , Sydney	2019
National Graduate Scholarship , China	2018
National Undergraduate Scholarship , China	2016
Outstanding Dissertation Awards , BNU	2017
First-class Scholarship , BNU	2016
Creative Undergraduate Research Fund , BNU	2015

Observing Proposals

I have been awarded 28 nights on 8–10 m class telescopes as PI or de facto PI.

LBT PEPSI , Co-I 2 nights	2026A
Keck KPF , Co-I, 2 nights	2026A
Subaru HDS , PI, 3 nights	2026A
CFHT ESPaDOnS , PI, 8 hrs	2025B
Keck KPF , PI, 2 nights	2025B
Subaru HDS , PI 2 nights	2025B
Subaru HDS , PI 3 nights	2025A
Subaru HDS , PI, 2 nights	2024B
Keck KPF , PI, 4 nights	2024B
Subaru HDS , PI, 4 nights	2024A
Keck KPF , PI, 1.5 nights	2024A

Keck KPF, Co-I, 1.5 nights	2024A
Keck HIRES, PI, 1 night	2023B
Keck HIRES, Co-I, 1 night	2022B

Computing Proposals

Sydney HPC Allocation 2023 Round 1, de facto PI, 300K CPU hr	2023
Sydney HPC Allocation 2022 Round 2, de facto PI, 300K CPU hr	2022
Sydney HPC Allocation 2022 Round 1, de facto PI, 270K CPU hr	2022
NCI Adapter Allocation Q3, de facto PI, 125K CPU hr	2022

Teaching

Guest lecture ASTR242	Hawai'i 2025
<i>Foundations of Astrophysics II</i>	
Demo tutorials, Astronomy OLE1636-40	Sydney, Sep 2021 – May 2023
<i>Exoplanets, Stars and the Universe</i>	
Lead tutorials, BUSS6002	Sydney, Sep 2021 – May 2023
<i>Data Science in Business</i>	
Lead tutorials, QBUS6600	Sydney, Aug 2022 – May 2023
<i>Data Analytics for Business Capstone</i>	
Lead tutorials, QBUS5011	Sydney, Mar 2023 – May 2023
<i>Introduction to Programming</i>	
Lead tutorials, QBUS5010	Sydney, Aug 2022 – Nov 2022
<i>Dashboard and Data Visualisation</i>	
TA (mark & consult), Physics lectures	Beijing, Sep 2017 – Jun 2018
<i>Mathematical Methods for Physicist I and II</i>	

Professional Service & Collaborations

Journal Referee, incl. ApJ, A&A and MNRAS	– present
University of Hawai'i Telescope Allocation Committee	2025A, 2025B
Subaru Open Time Proposal Referee	2025
Lecturer of Intro-to-Astro2024	2024
Good Vibrations Seminar Steering Committee, Member	2025
ET2.0 Asteroseismology Science Working Group, Co-chair	2025 – present
Kepler/TESS Asteroseismology Working Group 1 & 2, Member	2022 – present
EPRV Asteroseismology Collaboration, Keck/KPF lead	2024 – present
APOGEE-TESS Collaboration, Member	2025 – present
Roman Galactic Bulge Survey, Member	2025 – present
California Planet Search, Observer	2023 – present

References

Professor Timothy R. Bedding	tim.bedding@sydney.edu.au	University of Sydney
Associate Professor Daniel Huber	huberd@hawaii.edu	University of Hawai'i at Mānoa
Associate Professor Jennifer van Saders	jlvs@hawaii.edu	University of Hawai'i at Mānoa
Professor Marc Pinsonneault	pinsonneault.1@osu.edu	Ohio State University
Professor Sarbani Basu	sarbani.basu@yale.edu	Yale University

Publication List

Summary: 11 first-author papers. 24 significant contributions. 80 total publications. H-index 18.

Full bibliography: [ADS]. ORCID: 0000-0003-3020-4437

First-author & Refereed Papers

- [11] **Yaguang Li**, Jennifer van Saders, Simon Blouin, Daniel Huber, et al. “Interior Magnetic Dynamo as a Mass Loss Mechanism on the Red Giant Branch”. *Nature Astronomy* under review (2025).
- [10] **Yaguang Li**, Michael Liu, Trent J. Dupuy, Daniel Huber, et al. “A Test of Substellar Evolutionary Models with High-Precision Ages from Asteroseismology and Gyrochronology for HR 7672”. *ApJ* under review (2025).
- [9] **Yaguang Li** and Meridith Joyce. “Beyond MESA Defaults: The Impact of Structural Resolution Uncertainty in p-mode Asteroseismology”. *ApJ*, 994, 127 (2025) [arXiv] [ADS].
- [8] **Yaguang Li**. “Evidence that Mass Loss on the Red Giant Branch Decreases with Metallicity”. *ApJ*, 988, 179 (2025) [arXiv] [ADS].
- [7] **Yaguang Li**, Daniel Huber, J. M. Joel Ong, Jennifer van Saders, et al. “K Dwarf Radius Inflation and a 10 Gyr Spin-down Clock Unveiled through Asteroseismology of HD 219134 from the Keck Planet Finder”. *ApJ*, 984, 125 (2025) [arXiv] [ADS].
- [6] **Yaguang Li**, Timothy R. Bedding, Daniel Huber, Dennis Stello, et al. “Realistic Uncertainties for Fundamental Properties of Asteroseismic Red Giants and the Interplay between Mixing Length, Metallicity, and $\nu_{\max}$ ”. *ApJ*, 974, 77 (2024) [arXiv] [ADS].
- [5] **Yaguang Li**, Timothy R. Bedding, Dennis Stello, Daniel Huber, et al. “A prescription for the asteroseismic surface correction”. *MNRAS*, 523, 916 (2023) [arXiv] [ADS].
- [4] **Yaguang Li**, Timothy R. Bedding, Simon J. Murphy, Dennis Stello, et al. “Discovery of post-mass-transfer helium-burning red giants using asteroseismology”. *Nature Astronomy*, 6, 673 (2022) [arXiv] [ADS].
- [3] **Yaguang Li**, Timothy R. Bedding, Dennis Stello, Sanjib Sharma, et al. “Testing the intrinsic scatter of the asteroseismic scaling relations with Kepler red giants”. *MNRAS*, 501, 3162 (2021) [arXiv] [ADS].
- [2] **Yaguang Li**, Timothy R. Bedding, Tanda Li, Shaolan Bi, et al. “Asteroseismology of 36 Kepler subgiants - I. Oscillation frequencies, linewidths, and amplitudes”. *MNRAS*, 495, 2363 (2020) [arXiv] [ADS].
- [1] **Yaguang Li**, Timothy R. Bedding, Tanda Li, Shaolan Bi, et al. “Asteroseismology of KIC 7107778: a binary comprising almost identical subgiants”. *MNRAS*, 476, 470 (2018) [arXiv] [ADS].

Significant Contributions (incl. 5 Student-led Work[†])

- [24] Daniel Hey, **Yaguang Li**, and J. M. Joel Ong. “Asteroseismology of the Red Giant Companions to Gaia BH2 and BH3”. *AJ*, 170, 304 (2025) [arXiv] [ADS].
- [†] [23] Ian Berry, Daniel Huber, **Yaguang Li**, Daniel Hey, et al. “Discovery of 79 δ Scuti Stars in NGC 3532 Suggests a Decrease of Pulsator Occurrence with Age”. *arXiv e-prints* (2025) [arXiv] [ADS].
- [22] Courtney L. Crawford, **Yaguang Li**, Daniel Huber, Jie Yu, et al. “The highest mass Kepler red giants – II. Spectroscopic parameters, the amplitude–activity relation, and unexpected halo orbits”. *MNRAS*, 542, 3289 (2025) [arXiv] [ADS].
- [21] M. S. Lundkvist, J. R. Larsen, **Y. Li**, M. L. Winther, et al. “Asteroseismic investigation of HD 140283: The Methuselah star”. *arXiv e-prints* (2025) [arXiv] [ADS].
- [†] [20] Maryum Sayeed, Daniel Huber, Ashley Chontos, and **Yaguang Li**. “A Homogeneous Catalog of Oscillating Solar-type Stars Observed by the Kepler Mission and a New Amplitude Scaling Relation Including Chromospheric Activity”. *AJ*, 170, 212 (2025) [arXiv] [ADS].
- [19] Hans Kjeldsen, Timothy R. Bedding, **Yaguang Li**, Frank Grundahl, et al. “Asteroseismology of the G8 subgiant β Aquilae with SONG-Tenerife, SONG-Australia and TESS”. *A&A*, 700, A39 (2025) [arXiv] [ADS].
- [†] [18] Jianzhao Zhou, Shaolan Bi, **Yaguang Li**, Jie Yu, et al. “Asteroseismology of 687 TESS Red Giants: Individual Frequencies and Asymptotic Parameters”. *ApJS*, 279, 37 (2025) [ADS].

- [17] Claudia Reyes, Dennis Stello, Marc Hon, **Yaguang Li**, et al. “Asteroseismic study of subgiants and giants of the open cluster M67 using Kepler/K2: expanded sample and precise masses”. *MNRAS*, 538, 1720 (2025) [arXiv] [ADS].
- [16] Marc Hon, Daniel Huber, **Yaguang Li**, Travis S. Metcalfe, et al. “Asteroseismology of the Nearby K Dwarf σ Draconis Using the Keck Planet Finder and TESS”. *ApJ*, 975, 147 (2024) [arXiv] [ADS].
- [15] Daniel Huber, Ditte Slumstrup, Marc Hon, **Yaguang Li**, et al. “Stellar Models are Reliable at Low Metallicity: An Asteroseismic Age for the Ancient Very Metal-poor Star KIC 8144907”. *ApJ*, 975, 19 (2024) [arXiv] [ADS].
- [14] Marc Hon, **Yaguang Li**, and Joel Ong. “Flow-based Generative Emulation of Grids of Stellar Evolutionary Models”. *ApJ*, 973, 154 (2024) [arXiv] [ADS].
- [13] Yuetong Wang, **Yaguang Li**, Yan Li, Guifang Lin, et al. “Exploring the Small-scale Magnetic Fields in the Atmosphere of HD 49385 by Asteroseismic Analysis”. *ApJ*, 973, 44 (2024) [ADS].
- [†] [12] K. R. Sreenivas, Timothy R. Bedding, **Yaguang Li**, Daniel Huber, et al. “A simple method to measure ν_{max} for asteroseismology: application to 16 000 oscillating Kepler red giants”. *MNRAS*, 530, 3477 (2024) [arXiv] [ADS].
- [11] T. L. Campante, H. Kjeldsen, **Y. Li**, M. N. Lund, et al. “Expanding the frontiers of cool-dwarf asteroseismology with ESPRESSO. Detection of solar-like oscillations in the K5 dwarf ϵ Indi”. *A&A*, 683, L16 (2024) [arXiv] [ADS].
- [10] Courtney L. Crawford, Timothy R. Bedding, **Yaguang Li**, Dennis Stello, et al. “The highest mass Kepler red giants - I. Global asteroseismic parameters of 48 stars”. *MNRAS*, 528, 7397 (2024) [arXiv] [ADS].
- [†] [9] Jianzhao Zhou, Shaolan Bi, Jie Yu, **Yaguang Li**, et al. “Detection of Solar-like Oscillations in Subgiant and Red Giant Stars Using 2 minute Cadence TESS Data”. *ApJS*, 271, 17 (2024) [arXiv] [ADS].
- [8] Yixiao Zhou, Jørgen Christensen-Dalsgaard, Martin Asplund, **Yaguang Li**, et al. “Does the ν_{max} Scaling Relation Depend on Metallicity? Insights from 3D Convection Simulations”. *ApJ*, 962, 118 (2024) [arXiv] [ADS].
- [7] Simon J. Murphy, Timothy R. Bedding, Timothy R. White, **Yaguang Li**, et al. “Five young δ Scuti stars in the Pleiades seen with Kepler/K2”. *MNRAS*, 511, 5718 (2022) [arXiv] [ADS].
- [6] Tanda Li, **Yaguang Li**, Shaolan Bi, Timothy R. Bedding, et al. “Asteroseismology of 3642 Kepler Red Giants: Correcting the Scaling Relations Based on Detailed Modeling”. *ApJ*, 927, 167 (2022) [arXiv] [ADS].
- [5] Jinghua Zhang, Jian-Rong Shi, Hong-Liang Yan, **Yaguang Li**, et al. “Lithium Evolution of Giant Stars Observed by LAMOST and Kepler”. *ApJL*, 919, L3 (2021) [arXiv] [ADS].
- [4] Minghao Du, Shaolan Bi, Xianfei Zhang, **Yaguang Li**, et al. “Mode angular degree identification in subgiant stars with convolutional neural networks based on power spectrum”. *MNRAS*, 501, 614 (2021) [arXiv] [ADS].
- [3] Hong-Liang Yan, Yu-Tao Zhou, Xianfei Zhang, **Yaguang Li**, et al. “Most lithium-rich low-mass evolved stars revealed as red clump stars by asteroseismology and spectroscopy”. *Nature Astronomy*, 5, 86 (2021) [arXiv] [ADS].
- [2] Jinghua Zhang, Shaolan Bi, **Yaguang Li**, Jie Jiang, et al. “Magnetic Activity of F-, G-, and K-type Stars in the LAMOST-Kepler Field”. *ApJS*, 247, 9 (2020) [arXiv] [ADS].
- [1] Xianfei Zhang, C. Simon Jeffery, **Yaguang Li**, and Shaolan Bi. “Population Synthesis of Helium White Dwarf-Red Giant Star Mergers and the Formation of Lithium-rich Giants and Carbon Stars”. *ApJ*, 889, 33 (2020) [arXiv] [ADS].

Other Papers

- [†] [34] Lifei Ye, Shaolan Bi, Liu Long, Tiancheng Sun, **et al.** “The evolution of rotation and activity for FGK dwarfs in LAMOST-Kepler field”. *MNRAS* (2025) [ADS].
- [33] Mikkel N. Lund, Ashley Chontos, Frank Grundahl, Savita Mathur, **et al.** “Luminaries in the sky: The TESS legacy sample of bright stars: I. Asteroseismic detections in naked-eye main-sequence and subgiant solar-like oscillators”. *A&A*, 701, A285 (2025) [arXiv] [ADS].
- [32] Angharad Weeks, Daniel Huber, Amalie Stokholm, Martin Bo Nielsen, **et al.** “Asteroseismology of the ancient naked-eye exoplanet host star ν^2 Lupi”. *MNRAS*, 541, 2459 (2025) [ADS].

- [31] Yixiao Zhou, Jakob L. Rørsted, Achim Weiss, Andreas C. S. Jørgensen, **et al.** “Coupling 1D stellar evolution with 3D-hydrodynamical simulations on-the-fly – III: stellar evolution at different metallicities”. *MNRAS*, 540, 3400 (2025) [arXiv] [ADS].
- [30] Theron W. Carmichael, Steven Giacalone, Noah Vowell, Daniel Huber, **et al.** “The OATMEAL Survey. II. The 3D spin-orbit obliquity of an eccentric transiting brown dwarf in the Ruprecht 147 open cluster”. *arXiv e-prints* (2025) [arXiv] [ADS].
- [29] J. R. Larsen, J. L. Rørsted, V. Aguirre Børsen-Koch, M. S. Lundkvist, **et al.** “Pushing the boundaries of asteroseismic individual frequency modelling: Unveiling two evolved very low-metallicity red giants”. *A&A*, 697, A153 (2025) [arXiv] [ADS].
- [28] Yuetong Wang, Guifang Lin, Yan Li, Tao Wu, **et al.** “Asteroseismic Analysis of a Red Giant KIC 9145955 by Including the Small-scale Magnetic Fields in the Atmosphere”. *ApJ*, 985, 8 (2025) [ADS].
- [†] [27] K. R. Sreenivas, Timothy R. Bedding, Daniel Huber, Courtney L. Crawford, **et al.** “Testing the wavelength dependence of oscillations and granulation in red giants using Kepler and TESS”. *MNRAS*, 537, 3265 (2025) [arXiv] [ADS].
- [26] Nicholas Saunders, Samuel K. Grunblatt, Daniel Huber, J. M. Joel Ong, **et al.** “TESS Giants Transiting Giants. VII. A Hot Saturn Orbiting an Oscillating Red Giant Star”. *AJ*, 169, 75 (2025) [arXiv] [ADS].
- [25] Tiancheng Sun, Shaolan Bi, Xunzhou Chen, Yuqin Chen, **et al.** “Potential impact of the Sagittarius dwarf galaxy on the formation of young O-rich stars”. *Nature Communications*, 16, 1581 (2025) [arXiv] [ADS].
- [24] Jinghua Zhang, Maosheng Xiang, Jie Yu, Jian Ge, **et al.** “Reconstructing Intrinsic Stellar Noise with Stellar Atmospheric Parameters and Chromospheric Activity”. *ApJS*, 272, 40 (2024) [arXiv] [ADS].
- [23] Tanda Li, Shaolan Bi, Guy R. Davies, Timothy R. Bedding, **et al.** “Asteroseismology of three evolved stars in M67: testing systematic biases in seismic masses and ages”. *MNRAS*, 530, 2810 (2024) [ADS].
- [22] Mia S. Lundkvist, Hans Kjeldsen, Timothy R. Bedding, Mark J. McCaughrean, **et al.** “Low-amplitude Solar-like Oscillations in the K5 V Star ϵ Indi A”. *ApJ*, 964, 110 (2024) [arXiv] [ADS].
- [†] [21] Lifei Ye, Shaolan Bi, Jinghua Zhang, Tiancheng Sun, **et al.** “Relations of Rotation and Chromospheric Activity to Stellar Age for FGK Dwarfs from Kepler and LAMOST”. *ApJS*, 271, 19 (2024) [ADS].
- [†] [20] Amelie K. Read, Timothy R. Bedding, Prasad Mani, Benjamin T. Montet, **et al.** “Identifying 850 δ Scuti pulsators in a narrow Gaia colour range with TESS 10-min full-frame images”. *MNRAS*, 528, 2464 (2024) [arXiv] [ADS].
- [19] Lifei Ye, Shaolan Bi, Jinghua Zhang, Tiancheng Sun, **et al.** “Relations of rotation and chromospheric activity to stellar age for FGK dwarfs from Kepler and LAMOST”. *arXiv e-prints* (2024) [arXiv] [ADS].
- [18] Travis S. Metcalfe, Derek Buzasi, Daniel Huber, Marc H. Pinsonneault, **et al.** “Asteroseismology and Spectropolarimetry of the Exoplanet Host Star λ Serpentis”. *AJ*, 166, 167 (2023) [arXiv] [ADS].
- [†] [17] Liu Long, Shaolan Bi, Jinghua Zhang, Xianfei Zhang, **et al.** “Investigating 16 Open Clusters in the Kepler/K2-Gaia DR3 Field. I. Membership, Binary Systems, and Rotation”. *ApJS*, 268, 30 (2023) [arXiv] [ADS].
- [16] Tiancheng Sun, Zhishuai Ge, Xunzhou Chen, Shaolan Bi, **et al.** “Age of FGK Dwarfs Observed with LAMOST and GALAH: Considering the Oxygen Enhancement”. *ApJS*, 268, 29 (2023) [arXiv] [ADS].
- [†] [15] Yingxiang Wang, Tanda Li, Shaolan Bi, Timothy R. Bedding, **et al.** “Asteroseismic Modeling of 1153 Kepler Red Giant Branch Stars: Improved Stellar Parameters with Gravity-mode Period Spacings and Luminosity Constraints”. *ApJ*, 953, 182 (2023) [arXiv] [ADS].
- [14] Yaqian Wu, Maosheng Xiang, Gang Zhao, Yuqin Chen, **et al.** “Timing the formation of the galactic thin disc with asteroseismic stellar ages”. *MNRAS*, 520, 1913 (2023) [arXiv] [ADS].
- [13] Timothy R. Bedding, Simon J. Murphy, Courtney Crawford, Daniel R. Hey, **et al.** “TESS Observations of the Pleiades Cluster: A Nursery for δ Scuti Stars”. *ApJL*, 946, L10 (2023) [arXiv] [ADS].
- [12] Chen Jiang, Tao Wu, Adina D. Feinstein, Keivan G. Stassun, **et al.** “TESS Asteroseismic Analysis of HD 76920: The Giant Star Hosting an Extremely Eccentric Exoplanet”. *ApJ*, 945, 20 (2023) [arXiv] [ADS].
- [†] [11] Emily Hatt, Martin B. Nielsen, William J. Chaplin, Warrick H. Ball, **et al.** “Catalogue of solar-like oscillators observed by TESS in 120-s and 20-s cadence”. *A&A*, 669, A67 (2023) [arXiv] [ADS].

- [10] Jian Ge, Hui Zhang, Weicheng Zang, Hongping Deng, **et al.** “ET White Paper: To Find the First Earth 2.0”. [arXiv e-prints](#) (2022) [[arXiv](#)] [[ADS](#)].
- [9] Xunzhou Chen, Zhishuai Ge, Yuqin Chen, Shaolan Bi, **et al.** “Ages of Main-sequence Turnoff Stars from the GALAH Survey”. [ApJ](#), 929, 124 (2022) [[arXiv](#)] [[ADS](#)].
- [8] Yixiao Zhou, Thomas Nordlander, Luca Casagrande, Meridith Joyce, **et al.** “The relationship between photometric and spectroscopic oscillation amplitudes from 3D stellar atmosphere simulations”. [MNRAS](#), 503, 13 (2021) [[arXiv](#)] [[ADS](#)].
- [7] Yaqian Wu, Maosheng Xiang, Yuqin Chen, Gang Zhao, **et al.** “Age-metallicity dependent stellar kinematics of the Milky Way disc from LAMOST and Gaia”. [MNRAS](#), 501, 4917 (2021) [[arXiv](#)] [[ADS](#)].
- [6] Tanda Li, Timothy R. Bedding, Jørgen Christensen-Dalsgaard, Dennis Stello, **et al.** “Asteroseismology of 36 Kepler subgiants - II. Determining ages from detailed modelling”. [MNRAS](#), 495, 3431 (2020) [[arXiv](#)] [[ADS](#)].
- [5] Timothy R. Bedding, Simon J. Murphy, Daniel R. Hey, Daniel Huber, **et al.** “Very regular high-frequency pulsation modes in young intermediate-mass stars”. [Nature](#), 581, 147 (2020) [[arXiv](#)] [[ADS](#)].
- [4] Jinghua Zhang, Alexander I. Shapiro, Shaolan Bi, Maosheng Xiang, **et al.** “Solar-type Stars Observed by LAMOST and Kepler”. [ApJL](#), 894, L11 (2020) [[arXiv](#)] [[ADS](#)].
- [3] Xunzhou Chen, Zhishuai Ge, Yuqin Chen, Shaolan Bi, **et al.** “Ages of Dwarfs in the Solar Neighborhood: Considering C and O Enhancements”. [ApJ](#), 889, 157 (2020) [[ADS](#)].
- [2] Yaqian Wu, Maosheng Xiang, Gang Zhao, Shaolan Bi, **et al.** “Ages and masses of 0.64 million red giant branch stars from the LAMOST Galactic Spectroscopic Survey”. [MNRAS](#), 484, 5315 (2019) [[arXiv](#)] [[ADS](#)].
- [1] Yaqian Wu, Maosheng Xiang, Shaolan Bi, Xiaowei Liu, **et al.** “Mass and age of red giant branch stars observed with LAMOST and Kepler”. [MNRAS](#), 475, 3633 (2018) [[arXiv](#)] [[ADS](#)].

Conference Proceedings (incl. 1 Student-led Work[†])

- [†] [11] Camille Chiu, **Yaguang Li**, Daniel Huber, and Joel Ong. “Constraining Mass Loss on the Red Giant Branch Using Wide Binaries and Asteroseismology”. [American Astronomical Society Meeting Abstracts #245](#). Vol. 245. American Astronomical Society Meeting Abstracts. 2025, 353.03 [[ADS](#)].
- [10] Marc Teng Yen Hon, Daniel Huber, **Yaguang Li**, Travis Metcalfe, et al. “ σ Draconis: The coolest nearby star with asteroseismology from the Keck Planet Finder and TESS”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 49 [[ADS](#)].
- [9] Marc Hon, Daniel Huber, **Yaguang Li**, Travis Metcalfe, et al. “ σ Draconis: The coolest nearby star with asteroseismology from the Keck Planet Finder and TESS”. [TESS Science Conference III](#). 2024, 56 [[ADS](#)].
- [8] **Yaguang Li**, Timothy R. Bedding, Daniel Huber, Dennis Stello, et al. “Realistic uncertainties of red-giant ages and should you trust $\nu_{\max}$?” [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 118 [[ADS](#)].
- [7] **Yaguang Li**, Joel Ong, Daniel Huber, and Jennifer van Saders. “Decoupling mixed modes: Stretched frequency recovers pure p modes”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 24 [[ADS](#)].
- [6] May Gade Pedersen, Mathias Michielsen, **Yaguang Li**, Courtney Crawford, et al. “Probing time-dependent convective boundary mixing with gravity-mode oscillations”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 111 [[ADS](#)].
- [5] Mia Sloth Lundkvist, Jens Reersted Larsen, **Yaguang Li**, Mark Lykke Winther, et al. “Asteroseismic analysis of the ‘Methuselah’ star (HD 140283)”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 46 [[ADS](#)].
- [4] Sreenivas Kalarickal Ramachandra, Timothy R. Bedding, Daniel Huber, Courtney Crawford, **et al.** “Measuring $\nu_{\max}$ and testing the wavelength dependence of oscillations and granulation in red giants with Kepler and TESS”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 124 [[ADS](#)].
- [3] Lea Schimak, Timothy R. Bedding, Courtney Crawford, Daniel Huber, **et al.** “Spectroscopy and asteroseismic modelling of the red giant binary system KIC 10841730”. [8th TESS/15th Kepler Asteroseismic Science Consortium Workshop](#). 2024, 110 [[ADS](#)].

- [2] Daniel Huber, Tim Bedding, Megan Bedell, Tiago Campante, **et al.** “The Best Stars for Directly Imaging Mature Exoplanets from Space”. [AASTCS10, Extreme Solar Systems V](#). Vol. 56. AAS/Division for Extreme Solar Systems Abstracts. 2024, 503.07 [[ADS](#)].
- [1] Mathieu Vrad, Marc Pinsonneault, Marc Hon, James Kuszlewicz, **et al.** “Precise seismology with TESS CVZ data”. [Posters from the TESS Science Conference II \(TSC2\)](#). 2021, 141 [[ADS](#)].