

Megan Bedell

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Major Research Interests: stellar spectroscopy; exoplanet detection & characterization; data analysis methods

Positions Held

2024 – present	Research Scientist , Center for Computational Astrophysics, Flatiron Institute
2019 – 2024	Associate Research Scientist , Center for Computational Astrophysics, Flatiron Institute
2017 – 2019	Flatiron Research Fellow , Center for Computational Astrophysics, Flatiron Institute

Education

2012 – 2017	University of Chicago Ph.D. in Astronomy & Astrophysics <i>Dissertation Title: Illuminating the Origins of Planets with Solar Twins</i> <i>Advisor: Jacob L. Bean</i>
2008 – 2012	Haverford College B.S. with Honors in Physics and with Highest Honors in Astronomy

Honors & Awards

- Outstanding Paper Award, International Astrostatistics Association (2020)
- Josephine DeKarman Fellow (2016–2017)
- Lewis & Clark Field Scholar in Astrobiology (2016–2017)
- Illinois Space Grant Fellow (2016–2017)
- University of Chicago Harper Dissertation Fellow (2016–2017)
- NSF Graduate Research Fellow (2013–2016)
- Phi Beta Kappa (2012)

Mentorship & Teaching

- Extensive experience mentoring postdoctoral fellows, graduate students, and undergraduate students (see **Current & Former Mentees**)
- External examiner on thesis committees at Columbia, NYU, Yale, Stony Brook
- Mentor for Cientifico Latino GSMI, 2024
- Instructor for the *LSST Data Science Fellowship Program* Session 10, 2019
- Guest lecturer for graduate classes at Columbia University, CUNY Graduate Center, and Universidade de São Paulo

Leadership & Service

- Leader, *Terra Hunting Experiment* Data Reduction Working Group, 2021–2024
- Member, *Terra Hunting Experiment* Science Team, 2024–present
- Member, Keck Planet Finder Science Team, 2020–present
- Significant leadership responsibilities in the Astronomical Data and Exoplanets groups at CCA, with internal service work including:
 - Organizer, Astronomical Data Group weekly meeting, 2019–present
 - Organizer, CCA Colloquium, 2021–2024

- Member, CCA Pre-Doctoral Scholar Hiring Committee, 2022–2023 & 2025–2026
- Member, Flatiron Institute Committee for Diversity, Equity, and Inclusion, 2020–2023
- Member, CCA Flatiron Research Fellow Hiring Committee, 2022–2024
- Member, Hiring Process Committee, 2020–2023 [*group responsible for defining and overseeing the annual postdoc hiring process at CCA*]
- Member, Director Search Committee, 2020 [*small committee responsible for hiring of new CCA director*]
- Science Organizing Committee member for 11 conferences/workshops to date, including:
 - [Sun-as-a-Star Workshop](#) (2023, NYC; SOC chair)
 - Two conferences in the *EPRV* series (2023, Santa Barbara & 2024, Porto)
 - Two conferences in the *HoRSE* series (2024, Berlin & 2026, Grenada)
 - *Telluric Line Hack Week* (2019, NYC)
- Time Allocation Committee or Panel member for 4 NASA cycles to date, including serving as Panel Chair
- Grant reviewer for NASA, NSF, and others
- Active referee for AAS, MNRAS, A&A, Nature journals

Contributions to Open Science

- Creator of the [gaia-kepler.fun](#) crossmatch database, used in [>50 peer-reviewed publications to date](#)
- Co-creator (with Annelies Mortier) of the [gr8stars](#) database, a public-access repository of high-resolution spectra for a *Gaia*-selected sample of bright Northern-hemisphere FGK stars
- Developer of the [wobble](#) open-source code in python + TensorFlow
- Contributor to astronomical open-source software including [eleanor](#), [lightkurve](#)

Outreach & Press

- Featured panelist, [SF Presents: Imagining Other Worlds](#), October 2024
- Interviewed for [NPR All Things Considered](#), [Nature](#), [PBS News Hour](#), [Scientific American](#).
- Featured profile for the [Flatiron Scientist Spotlight](#).
- 3 first-author papers covered by press including [Science News article](#), [ESO press release](#) [picked up by Associated Press]
- Creator of TESS Roulette interactive data viewer (<https://tess.casino>); 43000 pageviews
- Volunteer for solar viewing events with *SF Path to Totality* eclipse program in NYC and Austin, 2024
- Local organizer for NYC Dept of Education STEM Career Day, 2018
- Astronomy on Tap presenter in NYC & Chicago, co-founder of Chicago AoT branch, 2016–2018
- Presenter, Chicago Life Long Learning, 2015–2017
- Presenter, Adler Planetarium Space Visualization Lab, 2014–2017

Current & Former Mentees

- **Independent postdoctoral fellows** mentored through the Flatiron Research Fellowship program, including:
 - Daniel Yahalomi — 2025, now a Torres Fellow at MIT
 - Dax Feliz — 2024–present
 - Michael Palumbo — 2024–present
 - Ryan Rubenzahl — 2024–present
 - Jiayin Dong — 2022–2025, now faculty at UIUC
 - Lionel Garcia — 2023–2025
 - Lily L. Zhao — 2021–2024, now a Sagan Fellow at UChicago
 - ... & substantial co-mentoring contributions with a number of other FRFs.
- **Graduate students** supervised (mostly) through the CCA Visiting Pre-Doctoral Scholar program:
 - Lyniya Edwards (CUNY Masters program) – 2025–2027
 - Niamh O’Sullivan (Oxford) — 2026
 - Katlyn Hobbs (Queens University Belfast) — 2025–2026

- Caprice Phillips (The Ohio State University) — 2024
- Isabel Angelo (UCLA) — 2023–2025, resulting in 2 publications
- Arjun Savel (UMD College Park) — 2022–2023, resulting in 2 publications
- Chris Lam (University of Florida) — 2022–2023, resulting in 1 publication
- Quang Tran (UT Austin) — 2021–2022, resulting in 1 publication
- Arvind Gupta (Penn State) — 2021–2022, resulting in 1 publication
- Lily L. Zhao (Yale University) — 2019–2020, resulting in 1 publication
- **Undergraduates** supervised through summer programs including the Simons–NSBP Scholars Program, CUNY AstroCOM, and the Barnard Summer Research Institute:
 - Nusrat Jahan (CUNY Hunter College) — 2022
 - Lianys Feliciano (CUNY Hunter College) — 2022
 - Joann Roberts (Chicago State University) — 2020, resulting in senior thesis
 - Ilana Doran (Barnard College) — 2019–2021
 - Angus Beane (University of Pennsylvania) — 2018, resulting in 1 publication

Selected Talks

- McMaster University Physics & Astronomy Colloquium, March 2026
- CITA Seminar, March 2026
- University of Pennsylvania Astronomy Colloquium, February 2026
- Yale University Astronomy Colloquium, February 2026
- Five Colleges Astronomy Department Colloquium, March 2025
- Know Thy Star, Know Thy Planet 2 (invited talk), February 2025 [[slides](#) / [watch online](#)]
- SONG 2024 Science Meeting (invited talk), September 2024
- Two HoRSEs (invited panelist), July 2024
- NASA Goddard ASD Colloquium, October 2023
- EPRV Research Coordination Network Colloquium, June 2023
- San Francisco State University Physics Colloquium, April 2023
- University of Hawaii IfA Colloquium, April 2023
- EPRV5, March 2023 [[watch online](#)]
- University of Pennsylvania Astro Seminar, April 2021
- Flatiron Institute Seminar, April 2021
- University of Cambridge Exo-Cam Seminar, February 2020
- University College London Seminar, February 2020
- Precision Spectroscopy, January 2021
- Penn State CEHW Seminar, December 2019
- Flatiron-Wide Algorithms and Mathematics Workshop, October 2019 [[slides online](#)]
- Princeton IAS Seminar, September 2019
- Sagan Summer Workshop, July 2019 [[watch online](#)]
- American Museum of Natural History Colloquium, May 2019
- Gordon Research Conference on Origins of Solar Systems, May 2019
- Carnegie EPL Colloquium, March 2019 [[watch online](#)]
- Cool Stars 20 (contributed plenary talk), August 2018 [[slides online](#)]
- Princeton Computational Astrophysics Workshop Series, May 2018 [[materials online](#)]
- Vanderbilt Astro Seminar, April 2018

Starred entries are undergrad or graduate student-led papers on which M. Bedell acted as a senior author.*

First- and Second-Author Papers:

1. Savel, A. B.*, Bedell, M., Kempton, E. M.-R., et al. 2025, [Peering into the black box: forward-modeling the uncertainty budget of high-resolution spectroscopy of exoplanet atmospheres](#), *AJ* **169**, 135.
2. Zhao, L. L., Bedell, M., Hogg, D. W., et al. 2024, [A Compact, Coherent Representation of Stellar Surface Variation in the Spectral Domain](#), *ApJ* **977**, 140.
3. Lam, C.*, Bedell, M., Zhao, L., et al. 2024, [gasperry: Optimized Scheduling of Radial Velocity Follow-Up Observations for Active Host Stars](#), *AJ* **168**, 200.
4. Angelo, I.*, Bedell, M., Petigura, E., et al. 2024, [A Data-driven Spectral Model of Main Sequence Stars in Gaia DR3](#), *ApJ* **974**, 43.
5. Savel, A. B.*, Bedell, M., & Kempton, E. M.-R. 2024, [cortecs: A Python package for compressing opacities](#), *JOSS*, **9**, 6104
6. Gupta, A.F.* & Bedell, M., 2023, [Fishing for Planets: A Comparative Analysis of EPRV Survey Performance in the Presence of Correlated Noise](#), *AJ*, **168**, 29.
7. Tran, Q.H.*, Bedell, M., Foreman-Mackey, D., et al. 2023, [Joint Modeling of Radial Velocities and Photometry with a Gaussian Process Framework](#), *ApJ*, **950**, 162
8. Luger, R., Bedell, M., Foreman-Mackey, D., Crossfield, I., et al., 2021, [Mapping Stellar Surfaces III: An Efficient, Scalable, and Open-Source Doppler Imaging Model](#), arXiv e-prints
9. Gan, T., Bedell, M., Wang, S., Foreman-Mackey, D., et al., 2021, [HD 183579b: A Warm Sub-Neptune Transiting a Solar Twin Detected by TESS](#), *MNRAS*, **507**, 2220
10. Pope, B., Bedell, M., Callingham, J., Vedantham, H., et al., 2020, [No Massive Companion to the Coherent Radio-Emitting M Dwarf GJ 1151](#), *ApJ*, **890**
11. Bedell, M., Hogg, D., Foreman-Mackey, D., Montet, B., & Luger, R., 2019, [WOBBLE: A Data-Driven Analysis Technique for Time-Series Stellar Spectra](#), *AJ*, **158**, 164
12. Luger, R., Bedell, M., Vanderspek, R., & Burke, C., 2019, [TESS Photometric Mapping of a Terrestrial Planet in the Habitable Zone: Detection of Clouds, Oceans, and Continents](#), arXiv e-prints
13. Bedell, M., Bean, J., Meléndez, J., Spina, L., et al., 2018, [The Chemical Homogeneity of Sun-Like Stars in the Solar Neighborhood](#), *ApJ*, **865**, 68
14. Bedell, M., Bean, J., Meléndez, J., Mills, S., et al., 2017, [Kepler-11 Is a Solar Twin: Revising the Masses and Radii of Benchmark Planets via Precise Stellar Characterization](#), *ApJ*, **839**, 94
15. Meléndez, J., Bedell, M., Bean, J., Ramírez, I., et al., 2017, [The Solar Twin Planet Search. V. Close-In, Low-Mass Planet Candidates and Evidence of Planet Accretion in the Solar Twin HIP 68468](#), *Astronomy and Astrophysics*, **597**
16. Bedell, M., Meléndez, J., Bean, J., Ramírez, I., et al., 2015, [The Solar Twin Planet Search. II. A Jupiter Twin Around a Solar Twin](#), *Astronomy and Astrophysics*, **581**
17. Bedell, M., Meléndez, J., Bean, J., Ramírez, I., et al., 2014, [Stellar Chemical Abundances: In Pursuit of the Highest Achievable Precision](#), *ApJ*, **795**, 23
18. Bedell, M., Villaume, A., Weiss, L., Sliski, D., et al., 2011, [Monitoring H \$\alpha\$ Emission and Continuum of UXORs: RR Tauri](#), *AJ*, **142**, 164

Other Papers:

1. Rubenzahl, R. A., Hattori, S., Särkkä, S., et al. 2026, [Scalable Gaussian Processes for Integrated and Overlapping Measurements Via Augmented State Space Models](#), *AJ* in press.
2. Yahalomi, D. A., Lu, T., Armitage, P. J., et al. 2026, [The Astrometric Resoecentric Degeneracy: Eccentric Single Planets Mimic 2:1 Resonant Planet Pairs in Astrometry](#), *ApJL* **999**, 1, L9.
3. Casey, A. R., Wheeler, A., Bedell, M., et al. 2026, [A Constrained Linear Model for Continuum Normalization of Stellar Spectra](#), *ApJ* **998**, 2, 192.
4. Angelo, I., Petigura, E., & Bedell, M. 2026, [Seeking Spectroscopic Binaries with Data-driven Models](#), *ApJ* **997**, 2, 238.

5. Behrard, A., Brinkman, C. L., Hattori, S., et al. 2025, [A Link between Rocky Planet Density and Host Star Chemistry](#), *AJ* **170**, 5, 282.
6. Rampalli, R., Johnson, J. W., Ness, M. K., et al. 2025, [A Galactic Perspective on the \(Unremarkable\) Relative Refractory Depletion Observed in the Sun](#), *ApJ* in review.
7. Sun, Q., Ji, C., Wang, S. X., et al. 2025, [Planets Around Solar Twins/Analogues \(PASTA\): II. Chemical abundances, systematic offsets, and clues as to planet formation](#), *A&A* **701**, A107.
8. O'Sullivan, N. K., Aigrain, S., Cretignier, M., et al. 2025, *MNRAS*. [Measuring the Sun's radial velocity variability due to supergranulation over a magnetic cycle](#), *MNRAS* **541**, 4, 3942.
9. Freckelton, A. V., Mortier, A., **Bedell, M.**, et al. 2025, [gr8stars – I. A homogeneous spectroscopic study of bright FGKM dwarfs and a public library of their high-resolution spectra](#), *MNRAS* **540**, 2, 1786.
10. Vieytes, M. C., Zhao, L. L., & **Bedell, M.** 2025, [The influence of chromospheric activity on line formation](#), *ApJ* **981**, 4.
11. Lu, Y., Colman, I., Sayeed, M., et al. 2025, [Evidence of Truly Young high- \$\alpha\$ Dwarf Stars](#), *AJ* **169**, 168.
12. Godoy-Rivera, D., Mathur, S., García, R. A., et al. 2025, [Kepler meets Gaia DR3: homogeneous extinction-corrected color-magnitude diagram and binary classification](#), *A&A* **696**, A243.
13. Hon, M., Huber, D., Li, Y., et al. 2024, [Asteroseismology of the Nearby K-Dwarf \$\sigma\$ Draconis using the Keck Planet Finder and TESS](#), *ApJ* **975**, 147.
14. Eisner, N. L., Grunblatt, S. K., Barragán, O., et al. 2024, [Planet Hunters TESS. V. A Planetary System Around a Binary Star, Including a Mini-Neptune in the Habitable Zone](#), *AJ* **167**, 241.
15. Rampalli, R., Ness, M. K., Edwards, G. H., et al. 2024, [The Sun Remains Relatively Refractory Depleted: Elemental Abundances for 17,412 Gaia RVS Solar Analogs and 50 Planet Hosts](#), *ApJ* **965**, 176.
16. Sayeed, M., Ness, M. K., Montet, B. T., et al. 2023, [Many Roads Lead to Lithium: Formation Pathways For Lithium-Rich Red Giants](#), *ApJ* **964**, 42.
17. Zhao, L. L., Dumusque, X., Ford, E. B., et al. 2023, [The Extreme Stellar-signals Project. III. Combining Solar Data from HARPS, HARPS-N, EXPRES, and NEID](#), *AJ* **166**, 173.
18. Ferreira, T., Meléndez, J., Lorenzo-Oliveira, D., Bean, J.L., et al., 2023, [A Jupiter analogue and a cold Super-Neptune orbiting the solar-twin star HIP 104045](#), arXiv e-prints.
19. Bonfanti, A., Gandolfi, D., Egger, J., Fossati, L., et al., 2023, [TOI-1055 B: Neptunian Planet Characterised With HARPS, TESS, and CHEOPS](#), *A&A* **671**, L8.
20. **Behrard, A.***, Ness, M., Cunningham, E., & **Bedell, M.**, 2023, [Elemental Abundances of Kepler Objects of Interest in APOGEE DR17](#), *AJ* **165**, 178.
21. Moran, A., Mingarelli, C., **Bedell, M.**, & Good, D., 2023, [Improving Distances to Binary Millisecond Pulsars with Gaia](#), *ApJ* **954**, 89.
22. Angus, R., Price-Whelan, A., Zinn, J., **Bedell, M.**, et al., 2022, [The 3D Galactocentric Velocities of Kepler Stars: Marginalizing Over Missing Radial Velocities](#), *AJ* **164**, 25.
23. Zhao, L., Fischer, D., Ford, E., Wise, A., et al., 2022, [The EXPRES Stellar Signals Project II. State of the Field in Disentangling Photospheric Velocities](#), *AJ* **163**, 171.
24. Gan, T., Lin, Z., Wang, S., Mao, S., et al., 2022, [TOI-530b: A Giant Planet Transiting an M-Dwarf Detected by TESS](#), *MNRAS* **511**, 83.
25. Spina, L., Sharma, P., Meléndez, J., **Bedell, M.**, et al., 2021, [Chemical Evidence for Planetary Ingestion in a Quarter of Sun-Like Stars](#), *Nature Astronomy* **5**, 1163.
26. Hedges, C., Hughes, A., Zhou, G., David, T., et al., 2021, [TOI-2076 and TOI-1807: Two Young, Comoving Planetary Systems Within 50 Pc Identified by TESS That Are Ideal Candidates for Further Follow Up](#), *AJ* **162**, 54.
27. David, T., Contardo, G., Sandoval, A., Angus, R., et al., 2021, [Evolution of the Exoplanet Size Distribution: Forming Large Super-Earths Over Billions of Years](#), *AJ* **161**, 265.
28. Anderson, S., Dittmann, J., Ballard, S., & **Bedell, M.**, 2021, [Higher Compact Multiple Occurrence Around Metal-Poor M-Dwarfs and Late-K-Dwarfs](#), *AJ* **161**, 203.
29. **Zhao, L.***, Hogg, D., **Bedell, M.**, & Fischer, D., 2021, [Excalibur: A Nonparametric, Hierarchical Wavelength Calibration Method for a Precision Spectrograph](#), *AJ* textbf161, 80.
30. Spina, L., Nordlander, T., Casey, A., **Bedell, M.**, et al., 2020, [How Magnetic Activity Alters What We Learn From Stellar Spectra](#), *ApJ* **895**, 52.
31. Montet, B., Feinstein, A., Luger, R., **Bedell, M.**, et al., 2020, [The Young Planet DS Tuc Ab Has a Low Obliquity](#), *AJ*

32. Vedantham, H., Callingham, J., Shimwell, T., Tasse, C., *et al.*, 2020, [Coherent Radio Emission From a Quiescent Red Dwarf Indicative of Star-Planet Interaction](#), *Nature Astronomy* **4**, 577.
33. Angus, R., Morton, T., Foreman-Mackey, D., van Saders, J., *et al.*, 2019, [Toward Precise Stellar Ages: Combining Isochrone Fitting With Empirical Gyrochronology](#), *AJ* **158**, 173.
34. Feinstein, A., Montet, B., Foreman-Mackey, D., **Bedell, M.**, *et al.*, 2019, [Eleanor: An Open-Source Tool for Extracting Light Curves From the TESS Full-Frame Images](#), *PASP* **131**, 94502.
35. Blancato, K., Ness, M., Johnston, K., Rybizki, J., & **Bedell, M.**, 2019, [Variations in \$\alpha\$ -element Ratios Trace the Chemical Evolution of the Disk](#), *ApJ* **883**, 34.
36. Kreidberg, L., Luger, R., & **Bedell, M.**, 2019, [No Evidence for Lunar Transit in New Analysis of Hubble Space Telescope Observations of the Kepler-1625 System](#), *ApJ* **877**, L15.
37. Lorenzo-Oliveira, D., Meléndez, J., Yana Galarza, J., Ponte, G., *et al.*, 2019, [Constraining the Evolution of Stellar Rotation Using Solar Twins](#), *MNRAS* **485**, L68.
38. Carlos, M., Meléndez, J., Spina, L., dos Santos, L., *et al.*, 2019, [The Li-Age Correlation: The Sun Is Unusually Li Deficient for Its Age](#), *MNRAS* **485**, 4052.
39. Botelho, R., Milone, A., Meléndez, J., **Bedell, M.**, *et al.*, 2019, [Thorium in Solar Twins: Implications for Habitability in Rocky Planets](#), *MNRAS* **482**, 1690.
40. Lorenzo-Oliveira, D., Freitas, F., Meléndez, J., **Bedell, M.**, *et al.*, 2018, [The Solar Twin Planet Search. The Age-Chromospheric Activity Relation](#), *A&A* **619**, A73.
41. **Beane, A.***, Ness, M., & **Bedell, M.**, 2018, [Actions Are Weak Stellar Age Indicators in the Milky Way Disk](#), *ApJ* **867**, 31.
42. Crossfield, I., Guerrero, N., David, T., Quinn, S., *et al.*, 2018, [A TESS Dress Rehearsal: Planetary Candidates and Variables From K2 Campaign 17](#), *The Astrophysical Journal Supplement Series* **239**, 5.
43. Spina, L., Meléndez, J., Karakas, A., dos Santos, L., *et al.*, 2018, [The Temporal Evolution of Neutron-Capture Elements in the Galactic Discs](#), *MNRAS* **474**, 2580.
44. dos Santos, L., Meléndez, J., **Bedell, M.**, Bean, J., *et al.*, 2017, [Spectroscopic Binaries in the Solar Twin Planet Search Program: From Substellar-Mass to M Dwarf Companions](#), *MNRAS* **472**, 3425.
45. Gandolfi, D., Barragán, O., Hatzes, A., Fridlund, M., *et al.*, 2017, [The Transiting Multi-Planet System HD 3167: A 5.7 \$M_{\oplus}\$ Super-Earth and an 8.3 \$M_{\oplus}\$ Mini-Neptune](#), *AJ* **154**, 123.
46. Malik, M., Grosheintz, L., Mendonça, J., Grimm, S., *et al.*, 2017, [HELIOS: An Open-Source, GPU-accelerated Radiative Transfer Code for Self-Consistent Exoplanetary Atmospheres](#), *AJ* **153**, 56.
47. Barragán, O., Grziwa, S., Gandolfi, D., Fridlund, M., *et al.*, 2016, [EPIC 211391664b: A 32 \$M_{\oplus}\$ Neptune-Size Planet in a 10 Day Orbit Transiting an F8 Star](#), *AJ* **152**, 193.
48. dos Santos, L., Meléndez, J., do Nascimento, J., **Bedell, M.**, *et al.*, 2016, [The Solar Twin Planet Search. IV. The Sun as a Typical Rotator and Evidence for a New Rotational Braking Law for Sun-Like Stars](#), *Astronomy and Astrophysics*, **592**
49. Tucci Maia, M., Ramírez, I., Meléndez, J., **Bedell, M.**, *et al.*, 2016, [The Solar Twin Planet Search. III. The \[Y/Mg\] Clock: Estimating Stellar Ages of Solar-Type Stars](#), *A&A* **590**, A32.
50. Ramírez, I., Meléndez, J., Bean, J., Asplund, M., *et al.*, 2014, [The Solar Twin Planet Search. I. Fundamental Parameters of the Stellar Sample](#), *A&A* **572**, A48.
51. Meléndez, J., Ramírez, I., Karakas, A., Yong, D., *et al.*, 2014, [18 Sco: A Solar Twin Rich in Refractory and Neutron-Capture Elements. Implications for Chemical Tagging](#), *ApJ* **791**, 14.
52. Monroe, T., Meléndez, J., Ramírez, I., Yong, D., *et al.*, 2013, [High Precision Abundances of the Old Solar Twin HIP 102152: Insights on Li Depletion From the Oldest Sun](#), *ApJ* **774**, L32.

White Papers:

1. Ford, E., **Bedell, M.**, Ciardi, D., Dodson-Robinson, S., *et al.*, 2019, [Advanced Statistical Modeling of Ground-Based RV Surveys as Critical Support for Future NASA Earth-Finding Missions](#), *Astro2020: Decadal Survey on Astronomy and Astrophysics*, **2020**, 466
2. The MSE Science Team, Babusiaux, C., Bergemann, M., Burgasser, A., *et al.*, 2019, [The Detailed Science Case for the Maunakea Spectroscopic Explorer](#), 2019 Edition, arXiv e-prints.

3. Bergemann, M., Huber, D., Adibekyan, V., Angelou, G., *et al.*, 2019, [Stellar Astrophysics and Exoplanet Science With the Maunakea Spectroscopic Explorer \(MSE\)](#), arXiv e-prints.
4. Meléndez, J., Bean, J., **Bedell, M.**, Ramírez, I., *et al.*, 2015, [Using Solar Twins to Explore the Planet-Star Connection With Unparalleled Precision](#), *The Messenger* **161**, 28.