# Megan Bedell, Ph.D.

#### **ABOUT**

POSITION: Flatiron Research Fellow

ADDRESS: Center for Computational Astrophysics, Flatiron Institute

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#### **EDUCATION**

UNIVERSITY OF CHICAGO 2012 - 2017

PhD in Astronomy & Astrophysics

Dissertation Title: Illuminating the Origins of Planets with Solar Twins

Advisor: Jacob Bean

HAVERFORD COLLEGE 2008 - 2012

Graduated Magna Cum Laude

B.S. with Honors in Physics and with Highest Honors in Astronomy

## **HONORS & AWARDS**

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
University of Chicago McCormick Fellow	2012 - 2014
Phi Beta Kappa	2012

## **OBSERVING TIME**

PI & lead observer at Keck/HIRES (NASA time)

PI of NASA Spitzer program

Lead observer at ESO La Silla/HARPS

Observer at Keck/HIRES

Observer at KPNO/WIYN 0.9m

Lead observer at Maria Mitchell Observatory/Loines 24-inch

4 half-nights, 2017

15.4 hours, Cycle-12 (2016)

47 nights, 2013 - 2017

2 half-nights, 2015

3 nights, November 2011

40 nights, July - Sept. 2010

## **INVITED SEMINARS**

Max-Planck-Institut für Astronomie, PSF Coffee	August 2017
Harvard CfA, Stars & Planets Seminar	November 2016
MIT. Exoplanet Tea	November 2016

# **SELECTED CONFERENCE PRESENTATIONS**

Know Thy Star, Know Thy Planet (contributed talk)	October 2017
AAS 229th Meeting (dissertation talk)	January 2017
Linking Exoplanet & Disk Compositions (contributed talk)	September 2016
Extreme Solar Systems III (contributed talk)	November 2015
Planet Signatures from Precision Spectroscopy (invited talk)	August 2015

# **TEACHING & MENTORSHIP**

Mentor, UChicago Women in Physics and Astronomy	2014 - 2016
Invited Speaker, UChicago GeoUnion	2015
Guest Lecturer, Universidade de São Paulo	2015
TA, Physical Sciences 120: The Origin of the Universe	2013
TA, Physical Sciences 119: Stellar Astronomy & Astrophysics	2012
Peer Tutor in Physics and Astronomy at Haverford College	2011 - 2012
OUTREACH	
Co-founder, Chicago Astronomy on Tap	2016 - 2017

Life Long Learning Presenter 2015 - 2017 Astronomy Conversations Presenter 2014 - 2017 Haverford College Public Observing Coordinator 2009 - 2010; 2011 - 2012

# PROFESSIONAL SERVICE

Referee for AAS journals	2015 - present
Science Organizing Committee, TESS Preparatory Workshop	2018
Time Allocation Committee, Transiting Exoplanet Survey Satellite	2017
Science Organizing Committee, Precision Spectroscopy	2017
Leader, UChicago Exoplanet Journal Club	2014 - 2015

# **PRESS**

<sup>&</sup>quot;Astronomers discover dark past of planet-eating 'Death Star," UChicago press release.

<sup>&</sup>quot;Jupiter Twin Discovered Around Solar Twin," ESO press release, covered by Associated Press, Discovery News, Space.com, and others.

<sup>&</sup>quot;Oldest Solar Twin Identified," ESO press release, covered by Science News, Space.com, and others.

#### PUBLICATION LIST

#### REFEREED PAPERS

- 1. dos Santos, L., Meléndez, J., **Bedell, M.**, et al., Spectroscopic binaries in the Solar Twin Planet Search program: from substellar-mass to M dwarf companions, 2017, MNRAS, 472, 3425
- 2. Gandolfi, D., Barragán, O., Hatzes, A. P., et al., *The Transiting Multi-planet System HD 3167:* A 5.7 M<sub>E</sub> Super-Earth and an 8.3 M<sub>E</sub> Mini-Neptune, 2017, AJ, 154, 123
- 3. **Bedell, M.**, Bean, J.L., Meléndez, J., et al., *Kepler-11 is a Solar Twin: Revising the Masses and Radii of Benchmark Planets via Precise Stellar Characterization*, 2017, ApJ 839, 94
- 4. Malik, M., Grosheintz, L., Mendonça, J. M., et al., HELIOS: An Open-Source, GPU-Accelerated Radiative Transfer Code For Self-Consistent Exoplanetary Atmospheres, 2017, AJ 153, 56
- 5. Meléndez, J., **Bedell, M.**,, Bean, J.L., et al., *The Solar Twin Planet Search V. Close-in, low-mass planet candidates and evidence of planet accretion in the solar twin HIP 68468*, 2017, A&A 597, A34
- 6. Barragán, O., Grziwa, S., Gandolfi, D., et al., EPIC 211391664b: A 32-M\_⊕ Neptune-sized planet in a 10-day orbit transiting an F8 star, 2016, AJ 152, 193
- 7. dos Santos, L.A., Meléndez, J., do Nascimento, J.-D., Jr., **Bedell, M.**, et al., *The Solar Twin Planet Search IV. The Sun as a typical rotator and evidence for a new rotational braking law for Sun-like stars*, 2016, A&A 592, A156
- 8. Tucci Maia, M., Ramírez, I., Meléndez, J., **Bedell, M.**, et al., *The Solar Twin Planet Search III. The [Y/Mg] clock: estimating stellar ages of solar type stars*, 2016, A&A 590, A32
- 9. **Bedell, M.,** Meléndez, J., Bean, J.L., et al., *The Solar Twin Planet Search II. A Jupiter twin around a solar twin*, 2015, A&A 581, A34
- 10. **Bedell, M.,** Meléndez, J., Bean, J.L., et al., *Stellar Chemical Abundances: In Pursuit of the Highest Achievable Precision*, 2014, ApJ 795, 23
- 11. Ramírez, I., Meléndez, J., Bean, J.L., et al., The Solar Twin Planet Search I. Fundamental parameters of the stellar sample, 2014, A&A 572, A48
- 12. Meléndez, J., Ramírez, I., Karakas, A., et al., 18 Sco: a solar twin rich in refractory and neutron-capture elements. Implications for chemical tagging, 2014, ApJ 791, 14
- 13. Monroe, T., Meléndez, J., Ramírez, I., et al., High Precision Abundances of the Old Solar Twin HIP 102152: Insights on Li Depletion from the Oldest Sun, 2013, ApJ 773, L32
- 14. **Bedell, M.**, Villaume, A, et al., *Monitoring H\alpha Emission and Continuum of UXORs: RR Tauri*, 2011, AJ 142, 164

#### INVITED REVIEWS

1. Meléndez, J., Bean, J. L., Bedell, M., et al., 2015, The Messenger, 161, 28