

Biosketch - Co-I Bedell

POSITION: Flatiron Research Fellow
ADDRESS: Center for Computational Astrophysics, Flatiron Institute
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RESEARCH INTERESTS: exoplanet discovery & characterization;
extreme precision radial velocity measurements;
stellar spectroscopy; galactic archaeology; astronomical data analysis

EDUCATION

UNIVERSITY OF CHICAGO	2012 - 2017
PhD in Astronomy & Astrophysics	
HAVERFORD COLLEGE	2008 - 2012
B.S. in Physics and Astronomy	

RELEVANT PRIOR ACTIVITIES

- Developed open-source code for radial velocity extraction, [wobble](#)
- Led observing & radial velocity data analysis for Large ESO Programme on HARPS, “Planets around solar twins: tracing planet formation using highly accurate abundance determinations” (P.I. Meléndez, 2012-2017, 100 nights)
- Co-I, “Improving the sensitivity of radial velocity spectrographs with data-driven techniques,” funded through the NASA ADAP program for \$308k in FY2019-2021 (P.I. Bean).

SELECTED PUBLICATIONS

1. **Bedell, M.**, Hogg, D.W., Foreman-Mackey, D., et al. *wobble: a data-driven method for precision radial velocities*, AJ in review, [arXiv:1901.00503](#).
2. Lorenzo-Oliveira, D., Freitas, F.C., Meléndez, J., **Bedell, M.**, et al., *The Solar Twin Planet Search: The age - chromospheric activity relation*, 2018, A&A 619, A73.
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. 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
5. **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