

Devin D. Whitten

Publication List

Refereed

- [**] **Whitten, D. D.**, Beers, T. C., Placco, V. M., et al. **2019b**, *Constraints on the Galactic Inner Halo Assembly History from the Age Gradient of Blue Horizontal-Branch Stars*
The Astrophysical Journal, 884, 67, doi: 10.3847/1538-4357/ab4269 ([ADS link](#))
- [**] **Whitten, D. D.**, Placco, V. M., Beers, T. C., et al. **2019a**, *J-PLUS: Identification of low-metallicity stars with artificial neural networks using SPHINX*
Astronomy & Astrophysics, 622, 18, doi: 10.1051/0004-6361/201833368 ([ADS link](#))
- [**] Yoon, J., **Whitten, D. D.**, Beers, T. C., et al. **submitted**, *The First Identification of the Group III CEMP star in Satellite Dwarf Galaxy Canes Venatici I*
The Astrophysical Journal ([ADS link](#))
- [9] Zhen, Y., Myeong, G. C., Beers, T. C., ... **Whitten, D. D.**, et al. **submitted**, *Dynamical Relics of the Ancient Galactic Halo*
The Astrophysical Journal ([ADS link](#))
- [8] Yoon, J., Beers, T. C., Tian, Di, **Whitten, D. D.**, et al. **2019**, *Origin of the CEMP-no Group Morphology in the Milky Way*
The Astrophysical Journal, 878, 2 ([ADS link](#))
- [7] Placco, V. M., Santucci, R. M., Beers, T. C., ... **Whitten, D. D.**, **2019**, *The R-Process Alliance: Spectroscopic Follow-up of Low-metallicity Star Candidates from the Best & Brightest Survey*
The Astrophysical Journal, 870, 2, doi: 10.3847/1538-4357/aaf3b9 ([ADS link](#))
- [6] Mendes de Oliveira, C., Ribeiro, T., Schoenell, W., ... **Whitten, D. D.**, et al. **2019**, *The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters*
Monthly Notices of the Royal Astronomical Society, 489, 1, doi: 10.1093/mnras/stz1985 ([ADS link](#))
- [5] Placco, V. M., Beers, T. C., Santucci, R. M., ... **Whitten, D. D.**, **2018**, *Spectroscopic Validation of Low-Metallicity Stars from RAVE*
Astronomy & Astrophysics, 155, 16, doi: 10.3847/1538-3881/aac20c ([ADS link](#))
- [4] Cenarro Lagunas, J., Moles, M., Cristóbal-Hornillos, D., ... **Whitten, D. D.**, et al. **2018**, *J-PLUS: The Javalambre Photometric Local Universe Survey*
Astronomy & Astrophysics, 622, 25, doi: 10.1051/0004-6361/201833036 ([ADS link](#))
- [3] López-Sanjuan, C., Vázquez Ramió, H., Varela, J., ... **Whitten, D. D.**, et al. **2018**, *J-PLUS: Morphological star/galaxy classification by PDF analysis*
Astronomy & Astrophysics, 662, 14, doi: 10.1051/0004-6361/201732480 ([ADS link](#))
- [2] López-Sanjuan C., Varela, J., Cristóbal-Hornillos, D., ... **Whitten, D. D.**, et al. **in press**, *J-PLUS: photometric calibration of large area multi-filter surveys with stellar and white dwarf loci*
Astronomy & Astrophysics ([ADS link](#))
- [1] Drout, M. R., Piro, A. L., Shappee, B. J., ... **Whitten, D. D.** **2017**, *Light Curves of the Neutron Star Merger GW170817/SSS17a: Implications for R-Process Nucleosynthesis*
Science, 358, 1570, doi: 10.1126/science.aaq0049 ([ADS link](#))

In Preparation

Whitten, D. D., Yoon, J., Beers, T. C., et al. **in prep.**, *On the Classification and Carbon Abundance Determination of Cool Carbon-enhanced Metal-Poor Stars using Bayesian Spectral Matching*

Whitten, D. D., Placco, V. M., Beers, T. C., et al. **in prep.**, *Photometric Determination of Carbon Abundance and Metallicity Distribution Functions of the Galactic Halo using Artificial Neural Networks*

Conference Proceedings/Abstracts

- [4] **Whitten, D. D.**, Placco, V. M., Beers, T. C., Clark, S., and Ederoclite, A. **2018**. *Probing Galactic Chemical Evolution with J-PLUS Photometry*, IAU Symposium, 334, 383-384, doi: 10.1017/S1743921317011590
- [3] Yoon, J., **Whitten, D. D.**, Beers, et al. **2017**, *Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo*, Proceedings of the International Astronomical Union, 13(S334), 389-390. doi:10.1017/S174392131700792X
- [2] **Whitten, D. D.** **2017**, *Stellar Parameter Determination with J-PLUS Using Artificial Neural Networks*, Zenodo. <http://doi.org/10.5281/zenodo.1039836>
- [1] Vázquez Ramió, H. and Cristóbal-Hornillos, D., Ederoclite, A., **Whitten, D. D.**, et al. **2017**, *Identification of RR Lyrae stars in the Javalambre Photometric Local Universe Survey*, Highlights on Spanish Astrophysics X

Software

- [2] **Whitten, D. D.** **2018**, *Gaussian Inflection Spline Interpolation Continuum*
<https://pypi.org/project/GSIC/>
- [1] **Whitten, D. D.** **2018**, *Stellar Photometric Index Network Explorer*
<https://github.com/DevinWhitten/SPHINX>

Minor Planet Center Submissions

- [3] Huizenga, D., Rengstorf, A.W., Slavin, S.D., **Whitten, D. D.** & Pavel, J. **2013**, *New Observations of Potentially Hazardous Asteroid 1999 CF9 (137126)*, M.P.S.484639.
- [2] Huizenga, D., Rengstorf, A.W., Slavin, S.D., **Whitten, D. D.** & Pavel, J. **2013**, *New Observations of Potentially Hazardous Asteroid 2005 GE59 (250620)*, M.P.S. 488236/M.P.C. 85829
- [1] Huizenga, D., Rengstorf, A.W., Slavin, S.D., **Whitten, D. D.** & Pavel, J. **2013**, *New Observations of Potentially Hazardous Asteroid Midas (01981)*, M.P.S. 490156/M.P.C. 86225.