

# 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', *ApJ*, 884, 67, doi: 10.3847/1538-4357/ab4269
- 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', *A&A*, 622, 18, doi: 10.1051/0004-6361/201833368
- 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', *ApJ*
- Zhen, Y., Myeong, G. C., Beers, T. C., ... **Whitten, D. D.**, et al. (submitted), 'Dynamical Relics of the Ancient Galactic Halo', *ApJ*
- Yoon, J., Beers, T. C., Tian, Di, **Whitten, D. D.**, et al. (2019), 'The Hierarchical Assembly of the Galactic Halo: the Origin of CEMP-no Groups in the Milky Way', *ApJ*, 878, 2
- 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', *ApJ*, 870, 2, doi: 10.3847/1538-4357/aaf3b9
- Mendes de Oliveira, C., ... **Whitten, D. D.**, et al. (2019), 'The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters', *MNRAS*, 489, 1, doi: 10.1093/mnras/stz1985
- Placco, V. M., Beers, T. C., Santucci, R. M., ... **Whitten, D. D.**, (2018), 'Spectroscopic Validation of Low-Metallicity Stars from RAVE', *A&A*, 155, 16, doi: 10.3847/1538-3881/aac20c
- Cenarro Lagunas, J., Moles, M., Cristóbal-Hornillos, D., ... **Whitten, D. D.**, et al. (2018), 'J-PLUS: The Javalambre Photometric Local Universe Survey', *A&A*, 622, 25, doi: 10.1051/0004-6361/201833036
- López-Sanjuan, C., Vázquez Ramió, H., Varela, J., ... **Whitten, D. D.**, et al. (2018), 'J-PLUS: Morphological star/galaxy classification by PDF analysis', *A&A*, 662, 14, doi: 10.1051/0004-6361/201732480
- 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', *A&A*
- 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.aag0049

### 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', *ApJ*
- 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', *ApJ*

### Conference Proceedings/Abstracts

- 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
- 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
- Whitten, D. D.** (2017). Stellar Parameter Determination with J-PLUS Using Artificial Neural Networks', *Zenodo*. <http://doi.org/10.5281/zenodo.1039836>
- 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

**Whitten, D. D.** (2018), 'The Stellar Photometric Index Network Explorer', <https://github.com/DevinWhitten/SPHINX>

**Whitten, D. D.** (2018), 'Gaussian Inflection Spline Interpolation Continuum', <https://pypi.org/project/GSIC/>

## Minor Planet Center Submissions

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.

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

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.