

JOURNAL PUBLICATIONS (PHYSICS)	<p>[1] Galvez, R., Fouhey, D. F., Jin, M., Szenicer, A., <i>et al</i> 2019. <i>A Machine Learning Dataset Prepared From the NASA Solar Dynamics Observatory Mission</i>, <i>ApJS</i>¹, 242, 7</p> <p>[2] Szenicer, A., Fouhey, D. F., Muñoz-Jaramillo, A., Wright, P. J., <i>et al</i> 2019. <i>A Deep Learning Virtual Instrument for Monitoring Extreme UV Solar Spectral Irradiance</i>, <i>Science Advances</i>², 5, eaaw6548</p> <p>[3] Wright, P. J., Cheung, M. C. M., Thomas, R., Galvez, R., <i>et al</i> 2019. (<i>in preparation</i>). <i>DeepEM: A Deep Learning Approach to DEM Inversion</i></p>
BOOK CHAPTERS	<p>[4] Wright, P. J., Cheung, M. C. M., Thomas, R., <i>et al</i> 2018. <i>DeepEM: A Deep Learning Approach to DEM Inversion</i>. In M. Bobra & J. Mason, eds., <i>Machine Learning, Statistics, and Data Mining for Heliophysics</i>, Chapter 4</p>
HIGHLIGHTED CONFERENCE CONTRIBUTIONS	<p>[5] Wright, P. J., Galvez, R., Fouhey, D. F., Jin, M. <i>et al</i>, 2019. <i>A Machine Learning Dataset Prepared From the NASA Solar Dynamics Observatory Mission</i>, <i>Machine Learning in Heliophysics</i>, Amsterdam, Netherlands</p> <p>[6] Muñoz-Jaramillo, A., Wright, P. J., Diaz Baso, C. J., Asensio Ramos, A., 2019. <i>Homogenization of 40 Years of Magnetograms Using Convolutional Neural Networks</i>, <i>Machine Learning in Heliophysics</i>, Amsterdam, Netherlands</p> <p>[7] Wright, P. J., Cheung, M. C. M., Galvez, R., Thomas, R. <i>et al</i>, 2019. <i>DeepEM: A Deep Learning Approach to DEM Inversion</i>, <i>Machine Learning in Heliophysics</i>, Amsterdam, Netherlands</p> <p>[8] Cheung, M. C. M., Muñoz-Jaramillo, A., Wright, P. J., Bhatt A., <i>et al</i>, 2019. <i>Cloud Computing at NASA's Frontier Development Lab</i>, <i>Next Generation Cloud Research Infrastructure</i>, Princeton, NJ, United States</p> <p>[9] Wright, P. J., & NASA FDL 2019. <i>An Overview of the NASA Frontier Development Lab 2019: An Applied Artificial Intelligence Accelerator</i>, in <i>Machine Learning for Planetary Science at AGU 2019</i>, San Francisco, CA, United States (invited)</p> <p>[10] Wright, P. J., Gitiaux, X.[†], Jungbluth, A.[†], Maloney, S.[†] <i>et al</i>, 2019. <i>Super-Resolution Maps of the Solar Magnetic Field Covering 40 Years of Space Weather Events</i>, in <i>Machine Learning in Space Weather at AGU 2019</i>, San Francisco, CA, United States</p>
NEURIPS WORKSHOP PAPERS	<p>[11] Jungbluth, A.[†], Gitiaux, X.[†], Maloney, S.[†], Shneider, C.[†], Wright, P. J., <i>et al</i>, 2019. <i>Single-Frame Super-Resolution of Solar Magnetograms: Investigating Physics-Based Metrics & Losses</i>, in 33rd Neural Information Processing Systems (NeurIPS) workshop on Machine Learning in Physical Sciences, Vancouver, Canada, 2019</p> <p>[12] Gitiaux, X.[†], Maloney, S.[†], Shneider, C.[†], Jungbluth, A.[†], Wright, P. J., <i>et al</i>, 2019. <i>Probabilistic Super-Resolution of Solar Magnetograms: Generating Many Explanations and Measuring Uncertainties</i>, in 33rd Neural Information Processing Systems (NeurIPS) workshop on Bayesian Deep Learning, Vancouver, Canada, 2019</p>

¹Impact Factor: 8.311 (2018)

²Impact Factor: 12.804 (2018)

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