

PERSONAL DETAILS

Address 3113 Risner St.
 Las Cruces NM, 88011
Phone (717) 799-0521
Mail sean.g.sellers@gmail.com
Website astrosean.com

EDUCATION

PhD., Astronomy 2016-2022
New Mexico State University

Doctoral Astronomy program with a focus in the observational signatures of solar flares. Advisor, Dr. R.T. James McAteer. Thesis: *Solar Flare Energy Deposition and Response throughout the Chromosphere and Transition Region.*

B.A. Astronomy and Physics 2012-2016
Vassar College, GPA: 3.44

Double majors in Physics and Astronomy, advisor Dr. Debra Elmegreen. Graduated with honors in Astronomy, 2016.

PUBLICATIONS

S.G. Sellers, R.O. Milligan, and R.T.J. McAteer Sept. 2022
Call and Response: A Time-resolved Study of Chromospheric Evaporation in a Large Solar Flare
The Astrophysical Journal, 936, 85, DOI: 10.3847/1538-4357/ac87a9

CONFERENCE PROCEEDINGS

S.G. Sellers and R.T.J. McAteer Aug. 2022
Mr. Ellerman Or: How I Learned to Stop Wasting Photons and Watch the Bomb
Talk, the 2022 Triennial Earth-Space Summit (TESS), August 2022

S.G. Sellers, R.O. Milligan, and R.T.J. McAteer Jun. 2022
A Time-Resolved Electron Driver and its Consequences
Poster, Solar Heliospheric and IN-terplanetary Environment (SHINE) Workshop, June 2022

WORKSHOPS

ASP, HAO, NCAR Colloquium Oct. 2018
Solar Spectropolarimetry and Diagnostic Techniques
Attendee, October 2018

DKIST Critical Science Plan Workshop 5 Dec. 2018
Wave Generation and Propagation
Attendee, December 2018

2nd NCSP DKIST Data Training Workshop Jan. 2020
Image treatment and time series
Attendee, January 2020

3rd NCSP DKIST Data Training Workshop

Milne-Eddington Spectropolarimetric Inversions

Attendee, June 2020

Jul. 2020

4th NCSP DKIST Data Training Workshop

n Introduction To Chromospheric Diagnostics

Attendee, June 2021

Jun. 2021

LEADERSHIP & PROFESSIONAL EXPERIENCE

President

NMSU Graduate Student Council

President of NMSU GSC, an advocacy and student representation body from 2019–2020.

2019–2020

Research & Outreach Fellow

Sunspot Solar Observatory Research & Outreach Fellowship

Responsible for supporting science and outreach operations with the Sunspot Solar Observatory Consortium

2018–2019

President

NMSU Astronomy Graduate Student Organization

President of NMSU AGSO, an advocacy and astronomy student representation body from 2018–2019.

2018–2019

SKILLS

Computer Languages: Python, Fortran90/95, IDL/SSWIDL, IRAF, HTML

Solar Instrumentation Expertise: RHESSI, GOES, *Hinode*/EIS, SDO/AIA, SDO/HMI, IRIS, Dunn Solar Telescope (DST)/IBIS, DST/ROSA, DST/FIRS, DST/Spinor

Other Tools: L^AT_EX, Microsoft Office, Adobe Creative Suite, WordPress, Google Apps