

Adam D. Myers
CURRICULUM VITAE
(January, 2025)

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EDUCATION

2004 Ph.D., Astrophysics, University of Durham, England

2000 M.Sci., 1st Class, Physics and Astronomy, University of Durham, England

Title of Ph.D. Thesis: The Statistical Lensing of QSOs

ACADEMIC POSITIONS

2022-present Professor, Department of Physics and Astronomy,
University of Wyoming

2016-2022 Associate Professor, Department of Physics and Astronomy,
University of Wyoming

2011-2016 Assistant Professor, Department of Physics and Astronomy,
University of Wyoming

2011-2013 Humboldt Fellow, Max-Planck-Institut für Astronomie,
Heidelberg, Germany

2008-2011 Teaching Associate, Department of Astronomy,
University of Illinois at Urbana-Champaign

2007-2011 Research Scientist, Department of Astronomy,
University of Illinois at Urbana-Champaign

2004-2007 Postdoctoral Fellow, Department of Astronomy,
University of Illinois at Urbana-Champaign

2004-2006 Research Affiliate, National Center for Supercomputing Applications
(NCSA), University of Illinois at Urbana-Champaign

2000-2003 PPARC Student Fellow, Department of Physics, University of Durham,
England

TEACHING

University of Wyoming

(Quoted student ratings are the average across the six 5-option Teaching Evaluation categories; Presentation of Materials, Evaluating Students, Interaction with Students, Interaction During Office Hours, Intellectual Challenge, and Overall Assessment of Instruction. The single worst and single best score in each category have been dropped):

Fall 2024	<i>PHYS3000 Methods of Physics</i> <i>Student ratings: 4.91/5.00</i>	21 students
Fall 2023	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.65/5.00</i>	54 students
Fall 2023	<i>PHYS3000 Methods of Physics</i> <i>Student ratings: 4.72/5.00</i>	22 students
Spring 2023	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.82/5.00</i>	47 students
Spring 2022	<i>ASTR5160 Astronomical Techniques II</i> <i>Student ratings: 4.95/5.00</i>	8 students
Fall 2021	<i>PHYS3000 Methods of Physics</i> <i>Student ratings: 5.00/5.00</i>	10 students
Fall 2020	<i>PHYS3000 Methods of Physics</i> <i>Student ratings: 4.94/5.00</i>	24 students
Fall 2019	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.65/5.00</i>	90 students
Spring 2018	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.65/5.00</i>	68 students
Fall 2017	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.61/5.00</i>	116 students
Spring 2017	<i>ASTR5160 Astronomical Techniques II</i> <i>Student ratings: 4.60/5.00</i>	7 students
Fall 2016	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.61/5.00</i>	105 students
Spring 2016	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.84/5.00</i>	51 students

Spring 2016	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.77/5.00</i>	60 students
Spring 2015	<i>PHYS1220 Engineering Physics II</i> <i>Student ratings: 4.56/5.00</i>	49 students
Spring 2015	<i>ASTR5160 Astronomical Techniques II</i> <i>Student ratings: 5.00/5.00</i>	5 students
Spring 2014	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.73/5.00</i>	90 students
Fall 2013	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.89/5.00</i>	77 students
Spring 2013	<i>ASTR5160 Astronomical Techniques II</i> <i>Student ratings: 4.08/5.00</i>	9 students
Fall 2012	<i>PHYS1220 Engineering Physics II</i> <i>Student ratings: 4.27/5.00</i>	62 students
Spring 2012	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.64/5.00</i>	133 students
Fall 2011	<i>ASTR1050 Survey of Astronomy</i> <i>Student ratings: 4.79/5.00</i>	80 students

University of Illinois

Spring 2011	<i>ASTR100 Perspectives in Astronomy</i> <i>Student ratings: Course Quality (4.3/5.0); Instructor's Performance (4.7/5.0)</i>	~220 students
Spring 2010	<i>ASTR100 Perspectives in Astronomy</i> <i>Student ratings: Course Quality (4.5/5.0); Instructor's Performance (4.8/5.0)</i>	~160 students
Fall 2008	<i>ASTR100 Perspectives in Astronomy</i> <i>Student ratings: Course Quality (4.2/5.0); Instructor's Performance (4.8/5.0)</i>	~180 students

PUBLICATIONS IN PROGRESS (see also <http://faraday.uwyo.edu/~admyers/pubs.html>)
(Wyoming students, REU students and postdoctoral scholars are underlined)

284. Napolitano L., Myers A.D., et al., 2025, [DESI Mg II Absorbers: Extinction Characteristics & Quasar Redshift Accuracy](#), Submitted to *AAS Journals*

283. DESI Collaboration, et al., 2025, [DESI 2024 VII: Cosmological Constraints from the Full-Shape Modeling of Clustering Measurements](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
282. DESI Collaboration, et al., 2025, [DESI 2024 V: Full-Shape Galaxy Clustering from Galaxies and Quasars](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
281. DESI Collaboration, et al., 2025, [DESI 2024 II: Sample Definitions, Characteristics, and Two-point Clustering Statistics](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
280. Guo W.-J., Pan Z., Siudek M., et al., 2025, [The first identification of Lyman \$\alpha\$ Changing-look Quasars at high-redshift in DESI](#), Submitted to *AAS Journals*
279. Zhou R., Guy J., Koposov S.E., Schlafly E.F., Schlegel D., et al., 2025, [Stellar reddening map from DESI imaging and spectroscopy](#), Submitted to *The Open Journal of Astrophysics*
278. Karim T., Singh S., Rezaie M., Eisenstein D., Hadzhiyska B., Speagle J.S., et al., 2025, [Measuring \$\sigma_8\$ using DESI Legacy Imaging Surveys Emission-Line Galaxies and Planck CMB Lensing, and the Impact of Dust on Parameter Inference](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
277. Said K., Howlett C., Davis T., Lucey J., Saulder C., Douglass K., Kim A.G., Kremin A., Ross C., Aldering G., et al., 2025, [DESI Peculiar Velocity Survey - Fundamental Plane](#), Submitted to *Monthly Notices of the Royal Astronomical Society*
276. Davison W., Parkinson D., BenZvi S., Palmese A., et al., 2025, [STag II: Classification of Serendipitous Supernovae Observed by Galaxy Redshift Surveys](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
275. Pérez-Fernández A., Medina-Varela L., Ruggeri R., Vargas-Magaña M., Seo H., Padmanabhan N., Ishak M., et al., 2025, [Fiducial-Cosmology-dependent systematics for the DESI 2024 BAO Analysis](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
274. Pinon M., de Mattia A., McDonald P., Burtin E., Ruhlmann-Kleider V., White M., Bianchi D., Ross A.J., et al., 2025, [Mitigation of DESI fiber assignment incompleteness effect on two-point clustering with small angular scale truncated estimators](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
273. Townsend A., Nordin J., Sagués Carracedo A., Kowalski M., Arendse N., Dhawan S., Goobar A., Johansson J., Mörtzell E., Schulze S., et al., 2025, [Candidate strongly-lensed Type Ia supernovae in the Zwicky Transient Facility archive](#), Submitted to *Astronomy & Astrophysics*
272. Krolewski A., Yu J., Ross A.J., Penmetsa S., Percival W.J., Zhou R., Hou J., et al., 2025,

- [Impact and mitigation of spectroscopic systematics on DESI DR1 clustering measurements](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
271. Yu J., Ross A.J., Rocher A., Alves O., de Mattia A., Forero-Sánchez D., Kneib J.-P., Krolewski A., Lan T.-W., Rashkovetskyi M., et al., 2025, [ELG Spectroscopic Systematics Analysis of the DESI Data Release 1](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 270. Ross A.J., et al., 2025, [The Construction of Large-scale Structure Catalogs for the Dark Energy Spectroscopic Instrument](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 269. Kong H., Ross A.J., Honscheid K., Lang D., Porredon A., de Mattia A., Rezaie M., Zhou R., Schlafly E., Moustakas J., Rosado-Marin A., et al., 2025, [Forward modeling fluctuations in the DESI LRGs target sample using image simulations](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 268. Maus M., Chen S., White M., et al., 2025, [An analysis of parameter compression and full-modeling techniques with Velocileptors for DESI 2024 and beyond](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 267. Andrade U., Mena-Fernández J., Awan H., Ross A.J., Brieden S., Pan J., de Mattia A., et al., 2025, [Validating the Galaxy and Quasar Catalog-Level Blinding Scheme for the DESI 2024 analysis](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 266. Noriega H.E., Aviles A., Gil-Marín H., Ramirez-Solano S., Fromenteau S., Vargas-Magaña M., et al., 2025, [Comparing Compressed and Full-modeling Analyses with FOLPS: Implications for DESI 2024 and beyond](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 265. Ramirez-Solano S., Icaza-Lizaola M., Noriega H.E., Vargas-Magaña M., Fromenteau S., Aviles A., Rodriguez-Martinez F., et al., 2025, [Full Modeling and Parameter Compression Methods in configuration space for DESI 2024 and beyond](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 264. Juneau S., Canning R., Alexander D.M., Pucha R., Fawcett V.A., **Myers A.D.**, Moustakas J., Ruiz-Macias O., Cole S., Pan Z., et al., 2025, [Identifying Quasars from the DESI Bright Galaxy Survey](#), Submitted to *AAS Journals*
 263. Ding Z., Variu A., Alam S., Yu Y., Chuang C., Paillas E., Garcia-Quintero C., Chen X., Mena-Fernández J., et al., 2025, [Suppressing the sample variance of DESI-like galaxy clustering with fast simulations](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
 262. Garcia-Quintero C., Mena-Fernández J., Rocher A., Yuan S., Hadzhiyska B., Alves O., Rashkovetskyi M., Seo H., Padmanabhan N., Nadathur S., et al., 2025, [HOD-Dependent Systematics in Emission Line Galaxies for the DESI 2024 BAO analysis](#), Submitted to

261. Mena-Fernández J., Garcia-Quintero C., Yuan S., Hadzhiyska B., Alves O., Rashkovetskyi M., Seo H., Padmanabhan N., Nadathur S., Howlett C., et al., 2025, [HOD-Dependent Systematics for Luminous Red Galaxies in the DESI 2024 BAO Analysis](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
260. Rashkovetskyi M., Forero-Sánchez D., de Mattia A., Eisenstein D.J., Padmanabhan N., Seo H., Ross A.J., et al., 2025, [Semi-analytical covariance matrices for two-point correlation function for DESI 2024 data](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
259. Lasker J., Carnero Rosell A., **Myers A.D.**, Ross A.J., Bianchi D., Hanif M.M.S, Kehoe R., de Mattia A., [Napolitano L.](#), Percival W.J., et al., 2025, [Production of Alternate Realizations of DESI Fiber Assignment for Unbiased Clustering Measurement in Data and Simulations](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
258. Paillas E., Ding Z., Chen X., Seo H., Padmanabhan N., de Mattia A., Ross A.J., Nadathur S., Howlett C., et al., 2025, [Optimal Reconstruction of Baryon Acoustic Oscillations for DESI 2024](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
257. Cuceu A., Herrera-Alcantar H.K., Gordon C., Martini P., Guy J., Font-Ribera A., Gonzalez-Morales A.X., Karim M.A., et al., 2025, [Validation of the DESI 2024 Ly \$\alpha\$ forest BAO analysis using synthetic datasets](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
256. Guy J., Gontcho A Gontcho S., Armengaud E., Brodzeller A., Cuceu A., Font-Ribera A., Herrera-Alcantar H.K., Karaçayli N.G., Muñoz-Gutiérrez A., Pieri M., et al., 2025, [Characterization of contaminants in the Lyman-alpha forest auto-correlation with DESI](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
255. DESI Collaboration, et al., 2025, [DESI 2024 VI: Cosmological Constraints from the Measurements of Baryon Acoustic Oscillations](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
254. DESI Collaboration, et al., 2025, [DESI 2024 IV: Baryon Acoustic Oscillations from the Lyman Alpha Forest](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
253. DESI Collaboration, et al., 2025, [DESI 2024 III: Baryon Acoustic Oscillations from Galaxies and Quasars](#), Submitted to *The Journal of Cosmology and Astroparticle Physics*
252. Brown Z., Demina R., Adame A.G., Avila S., Chaussidon E., Yuan S., Gonzalez-Perez V., Garcia-Bellido J., et al., 2025, [Constraining primordial non-Gaussianity from the large scale structure two-point and three-point correlation functions](#), Submitted to *AAS Journals*

PUBLISHED WORKS (see also <http://faraday.uwyo.edu/~admyers/pubs.html>)

(Wyoming students, REU students and postdoctoral scholars are underlined)

Refereed Journal Articles and Chapters:

- 251. Scholte D., Saintonge A., Moustakas J., Catinella B., Zou H., Dey B., et al., 2024, [The atomic gas sequence and mass-metallicity relation from dwarfs to massive galaxies](#), *Monthly Notices of the Royal Astronomical Society*, 535, 2341
- 250. Soumagnac M.T., Nugent P., Knop R.A., Ho A.Y.Q., Hohensee W., Awbrey A., Andersen A., Aldering G., Ventura M., et al., 2024, [The MOST Hosts Survey: spectroscopic observation of the host galaxies of ~40,000 transients using DESI](#), *The Astrophysical Journal Supplement*, 275, 22
- 249. Poppett C., Tyas L., Aguilar J., Bebek C., Bramall D., Claybaugh T., Edelstein J., Fagrelius P., Heetderks H., Jelinsky P., et al., 2024, [Overview of the Fiber System for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 168, 245
- 248. Turner W., Martini P., Göksel Karaçaylı N., et al., 2024, [New measurements of the Lyman- \$\alpha\$ forest continuum and effective optical depth with LyCAN and DESI Y1 data](#), *The Astrophysical Journal*, 976, 143
- 247. Chang Y.-L., Lan T.-W., Prochaska J.X., Napolitano L., Anand A., et al., 2024, [Probing the impact of radio-mode feedback on the properties of the cool circumgalactic medium](#), *The Astrophysical Journal*, 974, 191
- 246. Saxena A., Salvato M., Roster W., Shirley R., Buchner J., Wolf J., Kohl C., Starck H., Dwelly T., Comparat J., et al., 2024, [CircleZ: Reliable photometric redshifts for AGN computed solely using photometry from Legacy Survey Imaging for DESI](#), *Astronomy & Astrophysics*, 690, 365
- 245. Storfer C., Huang X., Gu A., Sheu W., Banka S., et al., 2024, [New Strong Gravitational Lenses from the DESI Legacy Imaging Surveys Data Release 9](#), *The Astrophysical Journal Supplement*, 274, 16
- 244. Karaçaylı N.G., Martini P., Weinberg D.H., Ferraro S., de Belsunce R., et al., 2024, [CMB lensing and Ly \$\alpha\$ forest cross bispectrum from DESI's first-year quasar sample](#), *Physical Review D*, 110, 063505
- 243. White M., Raichoor A., Dey A., Garrison L.H., Gawiser E., Lang D., Lee K., **Myers A.D.**, Schlegel D., Valdes F., et al., 2024, [The clustering of Lyman Alpha Emitting galaxies at \$z=2-3\$](#) , *The Journal of Cosmology and Astroparticle Physics*, 8, 020
- 242. Rezaie M., Ross A.J., Seo H.-J., Kong H., Porredon A., Samushia L., Chaussidon E., Krolewski A., de Mattia A., Beutler F., et al., 2024, [Local primordial non-Gaussianity from the large-scale clustering of photometric DESI luminous red galaxies](#), *Monthly Notices of the Royal Astronomical Society*, 532, 1902

241. DESI collaboration, et al., 2024, [The Early Data Release of the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 168, 58
240. Lange J.U., Blake C., Saulder C., Jeffrey N., DeRose J., et al., 2024, [Systematic Effects in Galaxy-Galaxy Lensing with DESI](#), *The Open Journal of Astrophysics*, 7, 57
239. Schlafly E.F., Schlegel D., BenZvi S., Raichoor A., Forero-Romero J.E., et al., 2024, [Measuring Fiber Positioning Accuracy and Throughput with Fiber Dithering for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 168, 35
238. Jiang L., Pan Z., et al., 2024, [Constraints on the spacetime variation of the fine-structure constant using DESI emission-line galaxies](#), *The Astrophysical Journal*, 968, 120
237. Ahmed H., Shemmer O., Matthews B., Dix C., Ha T., Richards G.T., Brotherton M.S., **Myers A.D.**, et al., 2024, [Gemini Near Infrared Spectrograph - Distant Quasar Survey: Rest-Frame Ultraviolet-Optical Spectral Properties of Broad Absorption Line Quasars](#), *The Astrophysical Journal*, 968, 77
236. Khederlarian A., Newman J.A., Andrews B.H., Dey B., Moustakas J., Hearin A., Juneau S., Tortorelli L., Gruen D., Hahn C., et al., 2024, [Emission Line Predictions for Mock Galaxy Catalogues: a New Differentiable and Empirical Mapping from DESI](#), *Monthly Notices of the Royal Astronomical Society*, 531, 1454
235. The DESI collaboration (Adame et al.), 2024, [Validation of the Scientific Program for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 167, 62
234. Jones A.M., Beaton R.L., Cherinka B.A., Masters K.L., Lucatello S., Diamond-Stanic A.M., Bird S.A., Blanton M.R., Cunha K., Farr E.E., Feuillet D., Frinchaboy P.M., Hagen A., Kinemuchi K., Lundgren B., Marinelli M.L., **Myers A.D.**, Roman-Lopes A., Ross A.J., Sanchez-Gallego J.R., Schmidt S.J., Sobeck J., Stassun K.G., Tayar J., Vargas-Magana M., Wilson J.C. & Zasowski G., 2023, [SDSS-IV from 2014 to 2016: A Detailed Demographic Comparison over Three Years](#), *Publications of the Astronomical Society of the Pacific*, 135, 1054
233. Schlafly E.F., Kirkby D., Schlegel D.J., **Myers A.D.**, Raichoor A., Dawson K. & 44 members of the DESI collaboration, 2023, [Survey Operations for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 166, 259
232. Zhou R., Ferraro S., White M., DeRose J., Sailer N. & 34 members of the DESI collaboration, 2023, [DESI luminous red galaxy samples for cross-correlations](#), *The Journal of Cosmology and Astroparticle Physics*, 11, 097
231. Fawcett V.A., Alexander D.M., Brodzeller A., Edge A.C., Rosario D.J., **Myers A.D.** & 36 members of the DESI collaboration, 2023, [A striking relationship between dust extinction and radio detection in DESI QSOs: evidence for a dusty blow-out phase in red QSOs](#),

230. Moon J., Valcin D., Rashkovetskyi M., Saulder C. & 64 members of the DESI collaboration, 2023, [First detection of the BAO signal from early DESI data](#), *Monthly Notices of the Royal Astronomical Society*, 525, 5406
229. Yang J., Fan X., Gupta A., **Myers A.**, Palanque-Delabrouille N., Wang F., Yèche C. & 35 members of the DESI collaboration, 2023, [DESI \$z \geq 5\$ Quasar Survey. I. A First Sample of 400 New Quasars at \$z\$ 4.7 ~ 6.6](#), *The Astrophysical Journal Supplement*, 269, 27
228. Moustakas J., Lang D., Dey A., Juneau S., Meisner A., **Myers A.D.**, Schlafly E.F., Schlegel D.J., Valdes F., Weaver B.A. & Zhou R., 2023, [Siena Galaxy Atlas 2020](#), *The Astrophysical Journal Supplement*, 269, 3
227. Saulder C., Howlett C., Douglass K.A., Said K., BenZvi S. & 33 members of the DESI collaboration, 2023, [Target selection for the DESI Peculiar Velocity Survey](#), *Monthly Notices of the Royal Astronomical Society*, 525, 1106
226. Darragh-Ford E., Wu J.F., Mao Y.-Y., Wechsler R.H., Geha M., Forero-Romero J.E., Hahn C., Kallivayalil N., Moustakas J., Nadler E.O., Nowotka M., Peek J.E.G., Tollerud E.J., Weiner B. & 28 members of the DESI collaboration, 2023, [Target Selection and Sample Characterization for the DESI LOW-Z Secondary Target Program](#), *The Astrophysical Journal*, 954, 149
225. Napolitano L., Pandey A., **Myers A.D.**, Lan, T.-W. & 32 members of the DESI collaboration, 2023, [Detecting and Characterizing Mg II Absorption in DESI Survey Validation Quasar Spectra](#), *The Astronomical Journal*, 166, 99
224. Ha T., Dix C., Matthews B.M., Shemmer O., Brotherton M.S., **Myers A.D.**, Richards G.T., [Maithil J.](#), Anderson S.F., Brandt W.N., Diamond-Stanic A.M., Fan X., Gallagher S.C., Green R., Lira P., Luo B., Netzer H., Plotkin R.M., Runnoe J.C., Schneider D.P., Strauss M.A., Trakhtenbrot B. & Wu J., 2023, [Shedding New Light on Weak Emission-Line Quasars in the CIV-H \$\beta\$ Parameter Space](#), *The Astrophysical Journal*, 950, 97
223. Dix C., Matthews B.M., Shemmer O., Brotherton M.S., **Myers A.D.**, Andruchow I., Brandt W.N., Ferrero G.A., Green R., Lira P., Plotkin R.M., Richards G.T. & Schneider D.P., 2023, [Gemini Near Infrared Spectrograph - Distant Quasar Survey: Prescriptions for Calibrating UV- Based Estimates of Supermassive Black Hole Masses in High-Redshift Quasars](#), *The Astrophysical Journal*, 950, 96
222. Matthews B.M., Dix C., Shemmer O., Brotherton M.S., **Myers A.D.**, Andruchow I., Brandt W.N., Gallagher S.C., Green R., Lira P., [McLane J.N.](#), Plotkin R.M., Richards G.T., Runnoe J.C., Schneider D.P. & Strauss M.A., 2023, [Gemini Near Infrared Spectrograph - Distant Quasar Survey: Augmented Spectroscopic Catalog and a Prescription for Correcting UV-Based Quasar Redshifts](#), *The Astrophysical Journal*, 950, 95

221. Hahn C., Wilson M.J., Ruiz-Macias O., Cole S., Weinberg D., Moustakas J., Kremin A., Tinker J.L., Smith A., Wechsler R.H. & 50 members of the DESI collaboration, 2023, [The DESI Bright Galaxy Survey: Final Target Selection, Design, and Validation](#), *The Astronomical Journal*, 165, 253
220. Cooper A.P., Koposov S.E., Allende Prieto C., Manser C.J., Kizhuprakkat N., **Myers A.D.**, Dey A., Gänsicke B.T., Li T.S., Rockosi C., Valluri M., Najita J., Deason A., Raichoor A., Wang M.-Y., Ting Y.-S., Kim B., Carrillo A., Wang W., Beraldo E. Silva L., Jesse Han J., Ding J., Sanchez-Conde M. & 42 members of the DESI collaboration, 2023, [Overview of the DESI Milky Way Survey](#), *The Astrophysical Journal*, 947, 37
219. Guy J., Bailey S., Kremin A. & 54 members of the DESI collaboration, 2023, [The Spectroscopic Data Processing Pipeline for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 165, 144
218. Petter G.C., Hickox R.C., Alexander D.M., **Myers A.D.**, Geach J.E., Whalen K.E. & Andonie C.P., 2023, [Host Dark Matter Halos of WISE-selected Obscured & Unobscured Quasars: Evidence for Evolution](#), *The Astrophysical Journal*, 946, 27
217. Gross A.C., Fu H., **Myers A.D.**, Djorgovski S.G., Steffen J.L. & Wrobel J.M., 2023, [Testing the Radio-Selection Method of Dual Active Galactic Nuclei in the Stripe 82 Field](#), *The Astrophysical Journal*, 945, 73
216. Raichoor A., Moustakas J., Newman J.A., Karim T. & 47 members of the DESI collaboration, 2023, [Target Selection and Validation of DESI Emission Line Galaxies](#), *The Astronomical Journal*, 165, 126
215. Alexander D.M., Davis T.M., Chaussidon E., Fawcett V.A., Gonzalez-Morales A.X., Lan T.-W., Yèche C. & 65 members of the DESI collaboration, 2023, [The DESI Survey Validation: Results from Visual Inspection of the Quasar Survey Spectra](#), *The Astronomical Journal*, 165, 124
214. Martinez-Delgado D., Cooper A.P., Roman J., Pillepich A., Erkal D., Pearson S., Moustakas J., Laporte C.F.P., Laine S., Akhlaghi M. & 19 collaborators, 2023, [Hidden Depths in the Local Universe: the Stellar Stream Legacy Survey](#), *Astronomy & Astrophysics*, 671, 141
213. Chaussidon E., Yèche C., Palanque-Delabrouille N., Alexander D.M., Yang J. & 52 members of the DESI collaboration, 2023, [Target Selection and Validation of DESI Quasars](#), *The Astrophysical Journal*, 944, 107
212. Dey A., Najita J.R., Koposov S.E., Joseph-Zack J., Maxemin G., Bell E.F., Poppett C., Patel E., Beraldo E. Silva L., Raichoor A., Schlegel D., Lang D., Meisner A., **Myers A.D.** & 34 members of the DESI collaboration, 2023, [DESI Observations of the Andromeda Galaxy: Revealing the Immigration History of our Nearest Neighbor](#), *The Astrophysical Journal*, 944, 1

211. Zhou R., Dey B., Newman J.A., Eisenstein D.J., Dawson K., Bailey S., Berti A., Guy J., Lan T.-W., Zou H. & 39 members of the DESI collaboration, 2023, [Target Selection and Validation of DESI Luminous Red Galaxies](#), *The Astronomical Journal*, 165, 58
210. **Myers A.D.**, Moustakas J., Bailey S., Weaver B.A., Cooper A.P., Forero-Romero J. & 48 members of the DESI collaboration, 2023, [The Target Selection Pipeline for the Dark Energy Spectroscopic Instrument](#), *The Astronomical Journal*, 165, 50
209. Lan T.-W., Tojeiro R., Armengaud E., Prochaska J.X., Davis T.M., Alexander D.M., Raichoor A., Zhou R., Yèche C. & 73 members of the DESI collaboration, 2023, [The DESI Survey Validation: Results from Visual Inspection of Bright Galaxies, Luminous Red Galaxies, and Emission Line Galaxies](#), *The Astrophysical Journal*, 943, 68
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40. Borde A., Yeche C., Palanque-Delabrouille N., Croft R.A., Font A., LeGoff J., McDonald P., Miralda J., **Myers A.D.**, Petitjean P., Pieri M., Slosar A., Viel M., Weinberg D.H., York D.G. & Rossi G., 2013, [Measurement of the 1D Lyman-alpha Power Spectrum with the DR9 BOSS Quasar Data](#), *Bulletin of the American Astronomical Society*, 221, 402.02
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 38. Hickox R.C., **Myers A.D.**, Greene J.E., Zakamska N.L., Hainline K. & DiPompeo M.A., 2013, [Colors and Composite SEDs of Type 1 and Type 2 Quasars with SDSS, WISE, and GALEX](#), *Bulletin of the American Astronomical Society*, 221, 133.08
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 36. Hall P.B., Brandt W.N., Petitjean P., Ak N.F., Paris I., Aubourg E., Anderson S.F., Schneider D.P., Bizyaev D., Brinkmann J., **Myers A.D.**, Malanushenko E., Malanushenko V., Oravetz D.J., Ross N.P., Shelden A., Simmons A.E., Weaver B.A. & York D.G., 2012, [BAL Quasars with Redshifted Troughs](#), *AGN Winds in Charleston*, 460, 78
 35. **DiPompeo M.A.**, Brotherton M.S., De Breuck C., Laurent-Muehleisen S. & **Myers A.D.**, 2012, [The First Direct Measure of BAL Quasar Orientations](#), *Bulletin of the American Astronomical Society*, 219, 435.02
 34. Lundgren B., York D.G., AlSayyad Y., **Myers A.**, Petitjean P., Pieri M., Ross N., Vikas S. & Wood-Vasey M., 2012, [New Results from a Census of Metal Absorption Lines in the BOSS DR9 Quasar Spectra](#), *Bulletin of the American Astronomical Society*, 219, 342.03
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30. Ross A.J., Percival W.J. & 45 members of the SDSS-III collaboration, 2012, [The 3D Clustering of BOSS DR9 Galaxies](#), *Bulletin of the American Astronomical Society*, 219, 324.02
29. Ho S., Cuesta A., Ross A., Seo H., DePutter R., Padmanabhan N., White M., **Myers A.** & 18 members of the SDSS-III collaboration, 2012, [Cosmology with Large Scale Structure](#), *Bulletin of the American Astronomical Society*, 219, 324.01
28. Vikas S.K., Wood-Vasey M., Lundgren B., **Myers A.**, Ross N.P., York D. & AlSayyad, Y., 2012, [CIV Absorbers Clustering At \$z \sim 2.4\$](#) , *Bulletin of the American Astronomical Society*, 219, 304.04
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26. Richards G.T., Mehta S.S., Peters C.M., Myers A.D. & Ross N.P., 2012, [Multi-dimensional Quasar Selection from Optical, Near-IR, and Astrometric Data](#), *Bulletin of the American Astronomical Society*, 219, 243.02
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24. Ross N.P., McGreer I.D., White M., **Myers A.D.**, Richards G.T., Strauss M.A., Anderson S.F., Bailey S., Fan X., Palanque-Delabrouille N., Petitjean P., Schawinski K., Schneider D.P., Silverman J., Weinberg D.H., Yèche C. & York D.G., 2012, [The SDSS-III BOSS DR9 Quasar Luminosity Function](#), *Bulletin of the American Astronomical Society*, 219, 209.06
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22. Green P.J., **Myers A.D.**, Barkhouse W.A., Trichas M., Aldcroft T.L., Ruiz A., Hopkins P. & Richards G.T., 2011, [Binary Quasars Observed by Chandra](#), *Bulletin of the American Astronomical Society*, 218, 228.33
21. Mehta S.S., Richards G.T. & **Myers A.D.**, 2011, [Optical+Near-IR Bayesian Classification of Quasars](#), *Bulletin of the American Astronomical Society*, 218, 327.09

20. Djorgovski S.G., Fu H., **Myers A.D.**, Yan L. & Stockton A., 2011, [Discovery of a Population of Close Binary AGN: Observing the Hierarchical Assembly of Supermassive Black Holes](#), *Bulletin of the American Astronomical Society*, 217, 310.07
19. Green P.J., **Myers A.D.**, Barkhouse W.A., Mulchaey J.S., Bennert V.N., Cox T.J., Aldcroft T.L. & Wrobel J.M., 2011, [A Unique Merging Pair among Luminous Binary Quasars: SDSS J1254+0846](#), *Bulletin of the American Astronomical Society*, 217, 310.04
18. **Myers A.D.**, Bovy J., Ho S., Martin V., Hogg D.W., Hennawi J.F., Slosar A., White M., Schlegel D.J., Brunner R.J., Verde L., Kindratenko V.V., Ross N., Weinberg D.H., Strauss M.A., Schneider D.P. & Bahcall N.A., 2011, [The Angular Power-Spectrum of SDSS Quasars Photometrically Classified through Extreme Deconvolution](#), *Bulletin of the American Astronomical Society*, 217, 222.06
17. Bovy J., Hennawi J.F., Hogg D.W., **Myers A.D.** & Ross N.P., 2011, [The SDSS-XDQSO quasar targeting catalog](#), *Bulletin of the American Astronomical Society*, 217, 222.05
16. Hickox R.C., **Myers A.D.** & the Boötes Survey Collaboration, 2011, [Black Holes and Starbursts in the Cosmic Web: Clustering and Evolution of Quasars and Submillimeter Galaxies](#), *Bulletin of the American Astronomical Society*, 217, 106.05
15. Ross N., Sheldon E.S., **Myers A.D.**, Yèche C., Richards G.T., McMahon R.G., Hennawi J.F., Lee K., Wood-Vasey W.M., Weyant A., Petitjean P., Eisenstein D.J., Nichol R.C., Padmanabhan N., Schlegel D.J., Schneider D.P., Strauss M.A., Weinberg D.H. & White M., 2010, [The SDSS-III Baryon Oscillation Spectroscopic Survey: Quasar Target Selection for Data Release Nine](#), 2010, *Bulletin of the American Astronomical Society*, 42, 471.04
14. Ball N.M., **Myers A.D.**, White M., Hickox R.C. & Brunner R.J., 2010, [Breaking The Quasar L-z Degeneracy Using PDF-weighted Quasar-galaxy Cross-correlations In Deep, Wide NASA Fields](#), *Bulletin of the American Astronomical Society*, 42, 409.05
13. Ball N.M., Brunner R.J. & **Myers A.D.**, 2008, [Robust Machine Learning Applied to Terascale Astronomical Datasets](#), in *Astronomical Data Analysis Software and Systems*, ASP Conference Series, eds. Robert W. Argyle, Peter S. Bunclark, and James R. Lewis., 394, 201
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11. Kindratenko V.V., Brunner R.J. & **Myers A.D.**, 2007, [Mittrion-C Application Development on SGI Altix 350/RC100](#), in *Proceedings of the Fifteenth Annual IEEE Symposium on Field-Programmable Custom Computing Machines - FCCM'07*
10. Kindratenko V.V., Brunner R.J. & **Myers A.D.**, 2007, [Dynamic load-balancing on](#)

- [multi-FPGA systems: a case study](#), in *Proceedings of the 3rd Annual Reconfigurable Systems Summer Institute - RSSI'07*
9. Brunner R.J., Kindratenko V.V. & **Myers A.D.**, 2007, [Developing and Deploying Advanced Algorithms to Novel Supercomputing Hardware](#), in *Proceedings of the NASA Science Technology conference - NSTC'07*
 8. Richards G.T., Brunner R.J., Gray A., Lacy M., **Myers A.**, Nichol R. & Riegel R., 2006, [Bayesian Quasar Classification in the Optical/Mid-IR](#), *Bulletin of the American Astronomical Society*, 209, 149.04
 7. Ross A.J., Brunner R.J. & **Myers A.D.**, [Precision Measurements of Higher-Order Angular Galaxy Correlations Using 10 Million SDSS Galaxies](#), *Bulletin of the American Astronomical Society*, 208, 13.01
 6. Ball N.M., Brunner R.J., **Myers A.D.** & Tchong D., 2006, [Robust Classification of 143 Million SDSS Objects Via Decision Tree Learning](#), *Bulletin of the American Astronomical Society*, 208, 12.01
 5. Croom S., Boyle B., Shanks T., Outram P., **Myers A.**, Smith R., Miller L., Lopes A., Loaring N. & Hoyle F., 2005, [Cosmology From the 2dF QSO Redshift Survey](#), in *Maps of the Cosmos, Proceedings of IAU Symposium No. 216*, eds. M. Colless, L. Staveley-Smith & R. Stathakis, 216, 95
 4. Richards G. & 25 members of the 2SLAQ and SDSS collaborations, 2004, [The SDSS-DR3 and 2dF-SDSS Quasar Luminosity Functions](#), *Bulletin of the American Astronomical Society*, 205, 167.03
 3. Croom S., Boyle B., Shanks T., Outram P., **Myers A.**, Smith R., Miller L., Lopes A., Loaring N. & Hoyle F., 2004, [The 2dF QSO Redshift Survey](#), in *Multiwavelength AGN Surveys; proceedings of the Guillermo Halo Conference*, eds. R. Mújica & R. Maiolino, 57
 2. Outram P.J., Shanks T., Boyle B.J., Croom S.M., Hoyle F., Loaring N.S., Miller L., **Myers A.D.** & Smith R.J., 2004, [The 2dF QSO Redshift Survey](#), in *Multiwavelength Cosmology*, eds. M. Plionis, *Part of the Astrophysics and Space Science Library (ASSL) book series*, 301
 1. **Myers A.D.**, Shanks T., Outram P.J. & The 2dF QSO Redshift Team, 2002, [Statistical Lensing in the 2QZ](#), in *A New Era in Cosmology*, ASP Conference Series, eds. T. Shanks & N. Metcalfe, 283, 82

CONTRACTS & GRANTS (EXTRAMURAL)

(Projects are only listed if my research group actually received funding)

Funded Projects as PI (~\$3.26million)

- | | |
|-----------|---|
| 2021-2026 | <i>Work on DESI Operations at the University of Wyoming, PI Adam Myers, DOE HEP Comparative Review, \$480,000</i> |
| 2022-2025 | <i>Transporting Planet-Forming Material Over the Protoplanetary Disk Lifetime, PI Adam Myers, CoPIs Hannah Jang-Condell, Neal Turner, NASA XRP transfer, \$231,164</i> |
| 2022-2023 | <i>Tracking Targets for DESI Operations, PI Adam Myers, UC Berkeley sub-award, \$51,908</i> |
| 2021-2021 | <i>Target Selection for Survey Validation, PI Adam Myers, UC Berkeley sub-award, \$29,398</i> |
| 2020-2020 | <i>DESI target selection for Survey Validation, PI Adam Myers, UC Berkeley sub-award, \$30,555</i> |
| 2018-2021 | <i>eBOSS and DESI: LSS Catalogs, Targeting and Spectroscopic Contaminants, PI Adam Myers, DOE HEP Comparative Review, \$205,000</i> |
| 2016-2019 | <i>Quality assurance and data reduction for the Beijing-Arizona Sky Survey (BASS), PI Adam Myers, UC Berkeley sub-award, \$171,000</i> |
| 2016-2018 | <i>Unveiling hidden black holes in the cosmic web: Dark matter halos of WISE quasars from Planck CMB lensing, PI Ryan Hickox, Science PI Adam Myers, CoPI Michael DiPompeo, NASA ADAP, \$335,238</i> |
| 2015-2017 | <i>Collaborative Research: Cross-correlation of WISE quasars with the Planck CMB lensing maps: A new probe of black holes and large-scale structure, PI Adam Myers, CoPIs Ryan Hickox, Andrea Burrows, NSF AST/AAG, \$176,197</i> |
| 2012-2016 | <i>Collaborative Research: The Hidden Side of Rapidly Growing Black Holes: Host Masses and Evolution of Obscured Quasars with SDSS and WISE, PI Adam Myers, CoPIs Andrea Burrows, Ryan Hickox, NSF AST/AAG, \$249,228</i> |
| 2012-2016 | <i>The Hidden Side of Rapidly Growing Black Holes: Host Masses and Evolution of Obscured Quasars with WISE, Chandra, XMM, Spitzer and GALEX, PI Adam Myers, CoPI Ryan Hickox, NASA ADAP, \$295,385</i> |

- 2011-2015 *Initiating a Bold New Generation of Surveys at the Wyoming Infrared Observatory*, Science PIs Adam Myers and Chip Kobulnicky, CoPIs Paul Johnson, Daniel Dale, Lee Armus, *NASA EPSCoR*, \$750,000
- 2011-2013 *Galaxy Environments Versus X-ray Activity in the ChaMP/SDSS*, PI Adam Myers, *NASA Chandra Telescope GO Program transfer*, \$20,764
- 2011-2013 *Quasars and the Moderate Redshift Universe*, PI Adam Myers, *Alexander von Humboldt Foundation*, ~\$47,000
- 2008-2011 *Breaking Quasar Clustering Degeneracies with AGN and Galaxies from the Multi-Wavelength Cosmos Survey*, PI Adam Myers, *NASA ADAP*, \$188,068

Funded Projects as CoPI (~\$4.43million)

- 2024-2027 *A Major Overhaul of Ultraviolet-Based Black Hole Mass Prescriptions*, PI Michael Brotherton, CoPI Adam Myers, *Space Telescope Science Institute*, \$31,538
- 2019-2024 *CS For All:RPP - Booting Up Computer Science in Wyoming*, PI Mike Borowczak, CoPIs Andrea Burrows, Adam Myers, Lars Kotthoff, *NSF STEM+C Partnerships Program*, \$999,929
- 2018-2024 *Collaborative Research: Placing High-Redshift Quasars in Perspective: a Gemini Near-Infrared Spectroscopic Survey*, PI Michael Brotherton, CoPIs Adam Myers, Ohad Shemmer, *NSF AST/AAG*, \$375,753
- 2018-2018 *Robotics, Applied Mathematics, Physics, and Engineering Design II - Cybersecurity and the Internet of Things*, PI Andrea Burrows, CoPIs Mike Borowczak, Adam Myers, Amy Banic, Lars Kotthoff, Chao Lan, *Wyoming Department of Education MSP*, \$297,612
- 2016-2019 *Quasars and Large Scale Structure: Gigaparsec-scale simulations confront Large Survey Data*, PI Tiziana di Matteo, CoPIs Shirley Ho, Adam Myers, *NSF AST/AAG*, \$534,973
- 2016-2017 *Robotics, Applied Mathematics, Physics, and Engineering Design*, PI Andrea Burrows, CoPIs Adam Myers, Suresh Muknahallipatna, Robert Kubichek, *Wyoming Department of Education MSP*, \$213,843
- 2014-2015 *Launching Astronomy: Standards and STEM Integration (LASSI)*, PI Andrea Burrows, CoPIs Adam Myers, Joel Pontius, Roger Spears, *Wyoming Department of Education MSP*, \$165,191

- 2013-2016 *SpIES: The Spitzer-IRAC Equatorial Survey*, PI Gordon Richards, Funded CoPIs Mark Lacy, Robert Lupton, Adam Myers, David Spergel, Michael Strauss, Alex Szalay, *NASA Spitzer Cycle 9*, \$440,000
- 2012-2016 *The Ultimate Multiwavelength Quasar Survey*, PI Gordon Richards, CoPI Adam Myers, *NASA ADAP*, \$283,227
- 2010-2012 *Galaxy Environments Versus X-ray Activity in the ChaMP/SDSS*, PI Paul Green, CoPI Adam Myers, *NASA Chandra Cycle 11 GO*, \$113,800
- 2009-2011 *Leveraging Spitzer's Legacy: Quasars and Feedback at High Redshift*, PI Gordon Richards, CoPIs Scott Anderson, Franz Bauer, Rajesh Deo, Xiaohui Fan, Sarah Gallagher, Adam Myers, Michael Strauss, Nadia Zakamska, *NASA Spitzer Cycle 6*, \$56,450
- 2009-2010 *Two to Tango? Binary Quasars, their Environments and the Merger Hypothesis*, PI Paul Green, CoPIs Thomas Aldcroft, Wayne Barkhouse, Philip Hopkins, Adam Myers, Gordon Richards, *NASA Chandra Cycle 10 GO*, \$93,300
- 2006-2010 *Developing and Deploying Advanced Astrophysical Algorithms to Novel Supercomputing Hardware*, PI Robert Brunner, CoPIs Nicholas Ball, Volodymyr Kindratenko, Adam Myers, *NASA AISR*, \$779,197
- 2006-2008 *Robust Object Classification in a GALEX-SDSS Federated Dataset*, PI Nicholas Ball, CoPIs Robert Brunner, Adam Myers, *NASA GALEX Cycle 2*, \$45,000

Funded Projects as Senior Personnel (~\$1.44million)

- 2016-2019 *REU Site: Wyoming Astronomy*, PI Daniel Dale, CoPI Chip Kobulnicky, *NSF Special Programs in Astronomy*, \$249,080
- 2014-2021 *Sustaining Wyoming's Advancing Reach in Mathematics and Science (SWARMS)*, PI Andrea Burrows, CoPIs Jennifer Allen, Daniel Dale, Paul Escoto, Farhad Jafari, Astrid Northrup, Tim Slater, *NSF Noyce*, \$1,186,365

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Membership and Affiliations:

Member, *American Physical Society* (2020-2021)
 Associate Member Participant, *Dark Energy Spectroscopic Instrument* (2016-present)
 Experienced Researcher, *Alexander von Humboldt Foundation* (2011-2013)
 External Participant, *Sloan Digital Sky Survey* (2010-2015)
 Consultant, *Harvard-Smithsonian Center for Astrophysics* (2009, 2010)
 Member, *American Astronomical Society* (2008-present)
 External Collaborator, *Sloan Digital Sky Survey* (2005-2009)

Office and Leadership:

Level 2 Survey Ops Manager, *Dark Energy Spectroscopic Instrument* (2024-present)
Targeting Scientist for Operations, *Dark Energy Spectroscopic Instrument* (2020-present)
Level 3 Targeting Manager, *Dark Energy Spectroscopic Instrument* (2016-2019)
Documentation/Website Lead, *The Legacy Surveys* (2015-present)
Tiling and Scheduling Team Lead, *DECam Legacy Survey* (2014)
Liaison to the University of Wyoming, *American Astronomical Society* (2013-present)
Low-z Quasar Target Selection Lead, *eBOSS Survey* (2013-2020)

Review Boards and Committees:

DESI Parallel Session, *Survey Operations and DESI Extension, Cancun, Mexico* (2024)
Chair, *Dark Energy Spectroscopic Instrument Spare Fibers Task Force* (2024)
Member, *Dark Energy Spectroscopic Instrument DEI Committee* (2024-present)
DESI Parallel Session, *Survey Operations Present and Future, Waikoloa, HI* (2023)
Scientific Organizing Committee, *DESI Survey Validation Workshop, Virtual* (2020)
Panel Member, *SDSS-V: Multi-Object Spectroscopy Review, Denver, CO* (2019)
Scientific Organizing Committee, “*Are AGN special?*” *Conference, Durham, UK* (2018)
Student Presentation Judge, *American Physical Society 4 Corners Meeting* (2017)
Panel Member, *Ecology as a Scientific Profession, University of Wyoming* (2015)
Member, *Committee on the Participation of Women in the SDSS* (2013-2016)

Grant Review Panels:

Panel Reviewer, *Department of Energy HEP Cosmic Frontier University Research* (2024)
Panel Reviewer, *Department of Energy FAIR initiative* (2024)
Panel Chair, *NASA Astrophysics Data Analysis program* (2023)
Panel Reviewer, *Department of Energy HEP Cosmic Frontier University Research* (2023)
Panel Reviewer, *Department of Energy HEP Cosmic Frontier University Research* (2021)
Panel Reviewer, *NSF Astronomy Grant Review Panel* (2021)
Panel Reviewer, *Department of Energy HEP Cosmic Frontier University Research* (2020)
Panel Reviewer, *NASA Hubble Fellowship Program* (2020)
Panel Reviewer, *Hubble Space Telescope Allocation Committee Cycle 23* (2015)
Panel Reviewer, *NSF Astronomy & Astrophysics Postdoctoral Fellowships* (2013)
Panel Reviewer, *NASA Astrophysics Data Analysis program* (2009)
Panel Reviewer, *NASA’s GALEX Time Allocation Committee* (2009)

Grant Refereeing:

Expert Review, *Canada–France–Hawaii Telescope Large Program* (2022)
Expert Review, *Research Corporation for Scientific Advancement Cottrell Scholar* (2021)
Expert Review, *UK Science Technology Facilities Council Astronomy Grants* (2021)
Expert Review, *National Science Foundation PIRE program* (2017)
Expert Review, *James Clerk Maxwell Telescope Allocation Committee* (2015)
Expert Review, *China/U.S. Telescope Access Program*, (2014)
Expert Review, *The National Science Foundation* (2009)

Manuscript Refereeing:

Referee, *The Astrophysical Journal Supplement* (2019-present)

Referee, *Astronomy & Astrophysics* (2017-present)
Referee, *The Astronomical Journal* (2013-present)
Referee, *Astrophysics and Space Science* (2013-present)
Referee, *The Journal of Cosmology and Astroparticle Physics* (2007-present)
Referee, *The Astrophysical Journal* (2006-present)
Referee, *Monthly Notices of the Royal Astronomical Society* (2005-present)

HONORS AND AWARDS

(Awarded by the University of Wyoming unless otherwise indicated):

2019, Builder status, *Dark Energy Spectroscopic Instrument Collaboration*
2018, Sabbatical to work with collaborators at Lawrence Berkeley National Laboratory
2017, “Thumbs up” Award, Student Ambassadors, College of Arts and Sciences
2017, PIE Award for Promoting Intellectual Engagement in first-year courses
2016, Faculty Senate Speaker (Spring)
2015, Extraordinary Merit in Research
2015, Architect status, *extended Baryon Oscillation Spectroscopic Survey Collaboration*
2014, PIE Award for Promoting Intellectual Engagement in first-year courses
2011, Senior Fellowship, *Alexander von Humboldt Foundation*, Heidelberg, Germany
2010, Architect status, *Baryon Oscillation Spectroscopic Survey Collaboration*

COLLOQUIA, SYMPOSIA, PRESENTATIONS & WORKSHOPS

July 2024, *DESI Spare Fibers Targeting*, Summer 2024 DESI Collaboration Meeting, Marseille, France (Invited)

June 2024, *DOE Operations Review of the Dark Energy Spectroscopic Instrument*, Berkeley, California (Invited)

June 2024, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, Research Experience For Undergraduates Seminar Series, Laramie, Wyoming

April 2024, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, University of North Texas, Denton, Texas (Invited)

December 2023, *Potential modifications to the Merged Target Ledgers*, Winter 2023 DESI Collaboration Meeting, Waikoloa, Hawaii (Invited)

June 2023, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, Research Experience For Undergraduates Seminar Series, Laramie, Wyoming

April 2023, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, University of Iowa, Iowa City, Iowa (Invited)

November 2022, *Divide and Conquer: Partitioning the Sky with the Hierarchical Equal Area isoLatitude Pixelisation*, Confronting Models with Data Seminar Series, Laramie, Wyoming (Invited)

August 2022, *The Physics of Gravity and Vertical Dance*, Saddle Up, Laramie, Wyoming (Invited; co-presented with Wanda Moretti)

June 2022, *Characterizing Dark Energy via Large Spectroscopic Surveys*, Research Experience For Undergraduates Seminar Series, Laramie, Wyoming

January 2022, *Target Selection for the 5-year Survey of the Dark Energy Spectroscopic Instrument*, CosmoPalooza (replacement for cancelled AAS special session), Worldwide, Virtual (Invited)

September 2021, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, Public Lecture, [PRESISION 2021](#), Presidency University, Kolkata, India, Virtual (Invited)

September 2021, *Characterizing Cosmic Acceleration with the Dark Energy Spectroscopic Instrument*, Idaho State University, Pocatello, Idaho, Virtual (Invited)

June 2021, *Preparations to observe the second layer of tiles (“pass=1”)*, DESI Research Forum, Worldwide, Virtual (Invited)

June 2021, *Characterizing Dark Energy via Large Spectroscopic Surveys*, Research Experience For Undergraduates Seminar Series, Laramie, Wyoming

February 2021, *Approved DESI Secondary Programs for Year 1*, DESI Research Forum, Worldwide, Virtual (Invited)

December 2020, *Target Lists for Data Release 9*, Winter 2020 DESI Collaboration Meeting, Worldwide, Virtual (Invited)

November 2020, *Moderator for Session #3: Operations*, DESI Survey Validation Workshop, Worldwide, Virtual

September 2020, *Update on DR9 Imaging*, DESI Galaxy-Quasar-Clustering Working Group, Worldwide, Virtual

July 2020, *Python Programming with Micro:bits*, 5-day workshop, WySLICE Teacher Professional Development, Wyoming, Virtual

April 2020, *Data Release 9 of the DESI Legacy Imaging Surveys*, Advances in Spectroscopic Cosmology Mini-symposium, American Physical Society meeting, Washington D.C., Virtual (Invited)

April 2020, *Mapping the Cosmos with DESI: Targeting and First Spectra*, University of New Mexico, Albuquerque, New Mexico, Virtual (Invited)

March 2020, *Target Selection for mini-SV-2*, Spring DESI Collaboration Meeting, Worldwide, Virtual

September 2019, *SV Target Selection Algorithms and Documentation*, DESI Review of Commissioning and Survey Validation, Tucson, Arizona (Invited)

July 2019, *Cosmology*, Launchpad Science Fiction Writers' Workshop, Laramie, Wyoming

July 2019, *Target Selection Software for DESI*, DESI Collaboration Meeting, Lawrence Berkeley National Laboratory, Berkeley, California

July 2019, *The Billion-light-year Yardstick*, Research Experience for Undergraduates Seminar Series, Laramie, Wyoming

March 2019, *Codes and outputs associated with DESI Target Selection*, DESI Imaging, Target Selection and Survey Validation Workshop, University of Utah, Salt Lake City, Utah (Invited)

October 2018, *Target Selection Software*, DOE Review of DESI Operations, Lawrence Berkeley National Laboratory, Berkeley, California (Invited)

October 2018, *Targeting Quality Assurance and Tools Update*, DESI collaboration meeting, Barcelona, Spain

July 2018, *Clustering Algorithms*, Robotics, Applied Mathematics, Physics, and Engineering II Teacher Professional Development Workshop, Laramie, Wyoming

June 2018, *Large, Multi-Wavelength Surveys and the Cosmic Evolution of Quasars*, Massive black holes in evolving galaxies: from quasars to quiescence (34th IAP Conference), Institut d'Astrophysique de Paris, Paris, France (Invited)

June 2018, *The Billion-light-year Yardstick*, Research Experience for Undergraduates Seminar Series, Laramie, Wyoming

June 2018, *Cosmology*, Launchpad Science Fiction Writers' Workshop, Laramie, Wyoming

May 2018, *The current status of the desitarget code and the characteristics of the targets it produces*, DESI collaboration meeting, Tucson, Arizona

February 2018, *Target Selection Software*, DOE Review of DESI, Lawrence Berkeley National Laboratory, Berkeley, California (Invited)

December 2017, *Target Selection Software*, DESI Director's Review, Lawrence Berkeley National Laboratory, Berkeley, California (Invited)

December 2017, *DESI Targeting: Current State of Affairs*, DESI Collaboration Meeting, SLAC National Accelerator Laboratory, Stanford, California

October 2017, *Remnant Echoes: Mapping the Cosmos via Large Spectroscopic Surveys*, American Physical Society 4-Corners Meeting, Fort Collins, Colorado (Invited)

August 2017, *Eclipses, Einstein, Eddington, and the shattered star that has yet to shatter*, UW-NPS Research Station, Grand Teton National Park, Wyoming (Invited)

August 2017, *Order of Magnitude Workshop*, Teacher Professional Development, Laramie, Wyoming

June 2017, *Python Coding Workshop*, Research Experience for Undergraduates Seminar Series, Laramie, Wyoming

June 2017, *Introduction to DESI Spectra*, Lawrence Berkeley National Laboratory, Berkeley, California

June 2017, *DESI Targeting and desitarget: Current State of Affairs*, Lawrence Berkeley National Laboratory, Berkeley, California

June 2017, *Cosmology*, Launchpad Science Fiction Writers' Workshop, Laramie, Wyoming

September 2016, *The 2017 Eclipse*, Robotics, Applied Mathematics, Physics, and Engineering Design Teacher Professional Development, Casper, Wyoming

July 2016, *Space Session*, Robotics, Applied Mathematics, Physics, and Engineering Design Teacher Professional Development, Laramie, Wyoming

July 2016, *How do you use a rainbow to tell what the Sun is made of?*, The Artful Craft of Science, University of Wyoming, Laramie, Wyoming

June 2016, *Python Coding Workshop*, Research Experience for Undergraduates Seminar Series, Laramie, Wyoming

June 2016, *How long would the Sun take to collapse?*, Order of Magnitude Teacher Professional Development, University of Wyoming, Laramie, Wyoming

May 2016, *The Billion-light-year Yardstick: Mapping the Universe with Luminous Black Holes*, Board of Visitors, University of Wyoming, Laramie, Wyoming (Invited)

April 2016, *The Billion-light-year Yardstick: Mapping the Universe with Luminous Black Holes*, Faculty Senate Speaker Series, University of Wyoming, Casper, Wyoming (Invited)

April 2016, *The Billion-light-year Yardstick: Mapping the Universe with Luminous Black Holes*, Faculty Senate Speaker Series, University of Wyoming, Laramie, Wyoming (Invited)

March 2016, *DESI Data Systems Target Selection Pipeline*, Lawrence Berkeley National Laboratory, Berkeley, California (Invited)

March 2016, *Things You Can Learn From a Spectrum*, Gear Up!, LCCC, Laramie, Wyoming (Invited)

October 2015, *Through Curving Wherewhen: Quasar Cosmology with SDSS-IV*, Drexel University, Philadelphia, Pennsylvania (Invited)

October 2015, *Through Curving Wherewhen: Quasar Cosmology with SDSS-IV*, The University of Washington, Seattle, Washington (Invited)

September 2015, *The Billion-Light-Year Yardstick*, Launching Astronomy: Standards and STEM Integration, Laramie, Wyoming

June 2015, *Python Coding Workshop*, Research Experience for Undergraduates Seminar Series, Laramie, Wyoming

April 2015, *The Billion-Light-Year Yardstick: Quasar Cosmology with SDSS-IV*, The Georgia Institute of Technology, Atlanta, Georgia (Invited)

December 2014, *Technical details of the SDSS IV quasar samples*, BOSS/eBOSS meeting, Cloudcroft, New Mexico (Invited)

July 2014, *SWARMS: Sustaining Wyoming's Advancing Reach in Mathematics and Science*, Ninth Annual NSF Robert Noyce Teacher Scholarship Program Conference, Washington, D.C.

July 2014, *Future large AGN samples for clustering measurements: eBOSS and its AGN sample*, Clustering Measurements of Active Galactic Nuclei Conference, European Southern Observatory, Garching Bei Munich, Germany (Invited)

June 2014, *Using Quasars from SDSS-III/SEQUELS to Characterize SDSS-IV/eBOSS selection*, 224th meeting of the American Astronomical Society, Boston, Massachusetts

June 2014, *Large-Scale Structure of the Universe*, University of Wyoming, Research Experience for Undergraduates, Laramie, Wyoming (Invited)

June 2014, *My path to becoming a scientist, and role as a scientist*, NSF Astronomy Days Workshop, University of Wyoming, Laramie, Wyoming

April 2014, *Prospects for Probing Primordial Physics With Quasars*, Kansas State University, Manhattan, Kansas (Invited)

December 2013, *QSO Selection*, eBOSS Project Review Meeting, Lawrence Berkeley National Laboratory, Berkeley, California (Invited; co-authored with Nathalie Palanque-Delabrouille)

November 2013, *How I Became a Working Academic Physicist*, Physics Speaker Series, University of Wyoming Physics Society, Laramie, Wyoming (Invited)

July 2013, *Weighing Quasar Hosts with the CMB*, Galaxy Coffee, Max-Planck Institut für Astronomie, Heidelberg, Germany

July 2013, *Progress Towards “Low- z ” eBOSS Quasar Target Selection After the W3 Ancillary Program*, Sauverny Observatory, Geneva, Switzerland (Invited)

June 2013, *Quasar Selection for SDSS-III/BOSS, SDSS-IV/eBOSS and the Survey in Between*, ENIGMA Group Workshop, Max-Planck Institut für Astronomie, Heidelberg, Germany (Invited)

June 2013, *The Billion-Light-Year Yardstick*, Research Experience For Undergraduates Program, Laramie, Wyoming (Invited)

April 2013, *Probing the Primordial Universe using Luminous Black Holes*, University of Kansas, Lawrence, Kansas (Invited)

April 2013, *Dark Energy, Luminous Black Holes and the Largest Map Ever Made*, Connections with Physics Speaker Series, University of Wyoming Physics Society, Laramie, Wyoming (Invited)

March 2013, *“Low- z ” Quasar Target Selection and Deeper u -band Data*, Shanghai Astronomical Observatory, Shanghai, China (Invited)

March 2013, *The Distribution of Distant Black Holes and Conditions in the Primordial Universe*, The University of Utah, Salt Lake City, Utah (Invited)

December 2012, *U-band imaging and targeting of low- z QSOs*, eBOSS collaboration meeting, Carnegie Mellon University, Pittsburgh, Pennsylvania

December 2012, *An XDQSOz Catalog from SDSS Imaging*, BOSS collaboration meeting, Carnegie Mellon University, Pittsburgh, Pennsylvania

April 2012, *Binary AGN at kiloparsec Scales*, Interacting Galaxies and Binary Quasars: A Cosmic Rendezvous, Trieste, Italy

April 2012, *A Large Sample of ~ 25 kpc/h Binary Quasars: Does the Halo Occupation Distribution Evolve Over $0.6 < z < 2.3$?*, Interacting Galaxies and Binary Quasars: A Cosmic Rendezvous, Trieste, Italy (Invited)

March 2012, *eBOSS Imaging: WIRO- S^3 and SCUSS*, eBOSS meeting, Johns Hopkins University, Baltimore, Maryland

March 2012, *Mapping the Primordial Universe with Luminous Black Holes*, Los Alamos National Laboratory, Los Alamos, New Mexico (Invited)

February 2012, *Dark Matter and Dark Energy: Unearthing the Absent Universe using Luminous Black Holes*, University of Wyoming Math Club, Laramie, Wyoming (Invited)

January 2012, *Clustering Near the Epoch of Peak Quasar Activity with SDSS-III/BOSS*, the 219th Meeting of the American Astronomical Society, Austin, Texas (Invited)

January 2012, *The BigBOSS QSO Pilot Survey*, the 219th Meeting of the American Astronomical Society, Austin, Texas

November 2011, *The clustering of BOSS Quasars*, BOSS Quasar Working Group, Princeton University, Princeton, New Jersey

October 2011, *A Bold New Mission for the Wyoming Infrared Observatory*, Board of Visitors, University of Wyoming, Laramie, Wyoming (Invited)

June 2011, *Measuring Clustering in the BOSS*, ENIGMA Group Meeting, Max-Planck Institut für Astronomie, Heidelberg, Germany (Invited)

March 2011, *Quasar Clustering*, BOSS collaboration meeting, Apache Point Observatory, Cloudcroft, New Mexico

January 2011, *The Angular Power Spectrum of SDSS Quasars Photometrically Classified through Extreme Deconvolution*, the 217th Meeting of the American Astronomical Society, Seattle, Washington

November 2010, *Quasars and Cosmology: Mapping the Dark Universe with Luminous Black Holes*, University of Wyoming, Laramie, Wyoming (Invited)

November 2010, *The Reason for the Seasons*, Parkland College, Champaign, Illinois (Invited)

June 2010, *Defining a Uniform Sample for Quasar Statistics*, BOSS Quasar Workshop, Center for Cosmology, Carnegie Mellon University, Pittsburgh, Pennsylvania

March 2010, *Quasar Target Selection Status*, BOSS Collaboration Meeting, Salt Lake City, Utah (Invited)

January 2010, *Targeting Quasars for Cosmology: From SDSS to BOSS to BigBOSS*, Lawrence Berkeley National Laboratory, Berkeley, California (Invited)

July 2009, *The Death of Spectroscopy*, AI Applications in Astrophysics and Cosmology, Pasadena, California (Invited)

April 2009, *Astronomical Society Public Outreach Talk*, University of Illinois, Urbana, Illinois (Invited)

February 2008, *Lunchtime Colloquium*, NOAO Headquarters, Tucson, Arizona (Invited)

January 2008, *Quasar Clustering*, University of Illinois, Urbana, Illinois

October 2007, *Quasar Clustering on Small Scales*, AGN in the Cosmological Context, CCAPP, Columbus, Ohio (Invited)

October 2006, *Investigating Galaxy Formation Using Photometrically Classified Quasars*, University of Sydney, Sydney, Australia (Invited)

January 2006, *Cosmology with Photometrically Classified Quasars*, SDSS Large Scale Structure Working Group, Ohio State University, Columbus, Ohio

May 2005, *Cosmology with Photometrically Classified Quasars*, University of Illinois, Urbana, Illinois

RESEARCH GROUP

CURRENT MEMBERS

Lucas Napolitano, Graduate Student
Harrison Leiendecker, Graduate Student
Yufeng Luo, Graduate Student
My Nguyen, Graduate Student
Dixon Reid, Undergraduate

FORMER MEMBERS (and first major position after leaving my group)

Salma Borchani, Exchange Student, 2023-24 (*Thomas Jefferson Scholar*)
Neil Bassett, REU student, 2016 (*Graduate Student at CU Boulder*)
Sophie Deam, REU student, 2016 (*Undergraduate at the University of Iowa*)
Emily Griffith, REU student, 2016 (*Graduate Student at Ohio State*)
William Harvey, REU student, 2016 (*Graduate Student at San Francisco State*)
Brad Lyke, REU student, 2016 (*Graduate Student at the University of Wyoming*)

Evan Nunez, REU student, 2016 (Graduate Student at Caltech)
Catherine Witherspoon, REU student, 2016 (Graduate Student at UW Madison)

Alexandra Higley, B.S., 2022 (Graduate Student at Penn State)
Danielle Schurhammer, B.S., 2018 (Industry)
Thomas Rochais, B.S., 2016 (Graduate Student at the University of Pennsylvania)
Jordan Turner, B.S., 2016 (Graduate Student at the University of Wyoming)

John Sheets, M.S., 2014 (Industry)

Andria Schwartz, PhD, 2021 (Faculty at Quinsigamond Community College)
*Sarah Eftekharzadeh, PhD, 2018 (Postdoc at SMU/Utah; Instrument Scientist at
NASA Ames/SOFIA Science Center)*

Joseph Findlay, Postdoc, 2014-2018 (Industry)
Michael DiPompeo, Postdoc, 2012-2015 (Visiting Prof. at Dartmouth College)
Suchetana Chatterjee, Postdoc, 2012-2013 (Faculty at Presidency University)
Ritaban Chatterjee, Postdoc, 2012-2013 (Faculty at Presidency University)