

Eric G. Hintz

As of January 4, 2024

Contact Information:

Full Name and Address: Eric George Bowman Hintz
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Present Position: Associate Professor
Associate Chair of Department of Physics and Astronomy
Brigham Young University
25 years

Work Address: Brigham Young University
Department of Physics and Astronomy
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Education and Degrees:

University	Degree	Major	Date
<i>Case Western Reserve University 10900 Euclid Ave. Cleveland, Ohio 44106</i>	B.S.	Physics	May 1988
<i>Case Western Reserve University 10900 Euclid Ave. Cleveland, Ohio 44106</i>	B.S.	Astronomy	May 1988
<i>Brigham Young University Department of Physics and Astronomy N281 ESC Provo, Utah 84602</i>	Ph.D.	Physics and Astronomy	August 1995

Employment History:

Employer	Position	Dates	Supervisor
<i>Brigham Young University Department of Physics and Astronomy N281 ESC Provo, UT 84602</i>	Associate Professor	September 1, 2006 to present	Kent Gee (chair)
<i>Brigham Young University Department of Physics and Astronomy N281 ESC Provo, UT 84602</i>	Assistant Professor	September 1, 1998 to August 31, 2006	Various department chairs
<i>RLH Research Foundation</i>	Post-doctoral Researcher	September 1, 1997 to August 31, 1998	Michael D. Joner
<i>Brigham Young University Salt Lake Center 3760 South Highland Drive Salt Lake City, UT 84106</i>	Part-time Teaching Faculty	Various Times	Dane Rigby
<i>Brigham Young University Department of Physics and Astronomy N281 ESC Provo, UT 84602</i>	Part-time Teaching Faculty	Various Times	Dorian Hatch
<i>DRI Research Foundation</i>	Post-Doctoral Researcher	February 1996 to August 1997	James Derrick

Fellowships, Honors, and Awards:

Award	Date	Organization
NASA Rocky Mountain Space Grant Consortium Fellowship	August 1991 to April 1994 and May 1995 to August 1995	NASA Space Grant Consortium
Outstanding Dissertation Award for College of Physical and Mathematical Sciences	April 1996	BYU Chapter of Sigma Xi
Bear Lake Observatory Post-doctoral Fellowship	Feb. 1996 - August 1997	DRI Research Foundation
BYU West Mountain Observatory Post-doctoral Fellowship	Sept. 1997 - August 1998	RLH Research Foundation

Professional Society Memberships:

Organization	Membership Type	Date
American Astronomical Society	Full Member	Since 1991
Astronomical Society of the Pacific	Technical Member	1992-2004
American Association of Variable Star Observers	Member	Since 1998
International Dark-Sky Association	Member	Since 2002
International Astronomical Union	Member	Since 2003
American Association of Physics Teachers	Member	2007-2017

Professional Society Committee Assignments:

Organization	Committee	Service
American Association of Physics Teachers	Space Science and Astronomy Committee	2010-2012
American Astronomical Society	AAS Agent	2013 to Present
American Astronomical Society	Nominating Committee	Nominated 2017 – not elected
American Astronomical Society	Chair Committee	2021 to Present
American Association of Variable Star Observers	Board Member	2023 to Present

Science Teams and Other Activities:

Instrument/Organization	Committee/Assignment	Service
SCORPIO instrument for Gemini South 8-m telescope – 8 band simultaneous imaging and spectroscopy	Member of pulsating variable star science team	2015 to Present
AAVSO – Short Period Pulsating Star Section Leader	Provide expertise on these targets, contribute to webpage, promote observations of these objects.	2017 to Present
Astrophysical Research Consortium (ARC)	Administrative Board Member	2022 to Present

Research Experience (*current research efforts, U: undergraduate)

Research Area	Collaborators
Robotic Telescopes for Transiting Planet Work *	KELT and TESS follow-up teams, and group of undergraduate researchers, Denise Stephens (BYU)
Variable Star Photometric Measurements* - including modeling of cadence related issues, and robotic telescope development	Jacob Jensen (U), Jarrod Hansen (U), Noelle Warden (U), Elisabeth Banks (U), Jared Davison (U), Sam Liechty, Marcello Bighetti (U)
H-alpha Observations of Open Clusters *	Jacob Jensen (U), Mike Joner (BYU)
Spectroscopic Observations of delta Scuti Stars*	
Spectropolarimetry of Zet And (Fall 2019)	KELT Team, Josh Pepper (Leigh U) and Racheal Roettenbacher (Yale)
Variable Star Physical Parameters Studies *	Michael Joner and Maureen Hintz (BYU)
Multi-Longitude Variable Star Observations *	Eloy Rodriguez (Spain), S. Martin (Italy), many others
Spectropolarimetry of delta Scuti Variables *	
Long Term Monitoring of AGN's *	J. Ward Moody (BYU) and student team
Ground Based Support of Satellite Studies of Variable Stars	MONS, COROT, MOST, and Eddington teams
Variability of High Mass X-ray Binaries	
High School Astronomy Research	Linda Walter (Payson High School) and Anthony Romanello (Alta High School)
Historical Astronomy and Dark-Sky Efforts	Daniel Graham (BYU-Philosophy)
Photometric Studies of Galaxies in Rich Abell Clusters (Dissertation research)	J. Ward Moody (BYU)
Astronomy Education Research :* Head-mounted displays Planetarium education Impact of mentored research in astronomy	Jeannette Lawler (BYU), Michael Jones (BYU)

External Grants Funded:

Funding Organization	Status	Amount Requested	Amount Funded	Title of Project
AAS Small Research Grant - Winter 2001	PI	\$4710	\$2400	Undergraduate Monitoring of Pulsating Variable Stars
Fund for Astrophysical Research - 2001	PI	\$1909	\$1909	Facilitating Research on the 16" David Derrick Telescope
AAS Small Research Grant - Winter 2002	PI	\$4874	\$4874	Variable Star Monitoring with Undergraduate/High School Collaborations

Fund for Astrophysical Research – 2003	PI	\$2500	\$2500	Upgrade of Apogee CCD camera for Undergraduate Research
AAS Small Research Grant - Winter 2004	PI	\$5300	\$5300	Delta Scuti in the Spectral Range from Ca II HK to H-gamma
AAS Small Research Grant - Winter 2005	PI	\$3252	\$3252	Open Cluster Observations in Narrow Ca II H and K Filters
AAS Small Research Grant - Winter 2006	PI	\$4670	\$3900	Open Cluster Observations in Narrow Ca II H and K Filters
NSF Astronomy PREST – 2006-2012	Co- PI	\$699,587	\$757,943	Principle Instrument Upgrade at the BYU West Mountain Observatory – (With 1 Year Extension)
Fund for Astrophysical Research - 2009	PI	\$1549	\$1549	Monitoring HMXB Systems
NSF – Cyberlearning: Transforming Education - 2011	Co-PI	\$548,927	\$300,000	Exploring augmented reality to improve learning by deaf children in a planetarium
Sorenson Impact Foundation - 2012	Co-PI	\$152,460	\$152,460	
NSF-WEASO Student Funding for Nathaly Zurita - 2011	Co-PI	\$756	\$756	Observing High Mass X-ray Binaries
NSF- WEASO Student Funding for Nathaly Zurita - 2012	Co-PI	\$756	\$756	Monitoring Suspected Neutron Stars and Black Holes Variability
NASA RMSG – 2018	PI	\$24,883	\$24,883	First Hand Knowledge of Exoplanets and the Stars they Orbit
Mt. Cuba Astronomical Foundation - 2018	PI	\$64,475	\$64,475	Confirming Observations for Transiting Exoplanets from TESS and KELT
NASA RMSG – 2021	PI	\$5000	\$5000	High School Science Contest based of Pulsating Variable Stars.
NSF-AST Grant	PI	\$176219	Pending	Carbon-Monoxide Bands Over the Pulsation Cycle of Cepheid Variables and its Potential Impact on the Period-Luminosity Relation
Total			\$1,326,957	

Internal BYU Funding:

Funding	Status	Amount Requested	Amount Funded	Title of Project
GE Course Improvement - 2001	PI	\$4,000	\$2,000	Automated Telescope for Phcs 127 and PS 100.
MEG - 2001	PI	\$20,000	\$20,000	Teaching Astronomy Undergraduate Research Under the Stars (TAURUS)
MEG - 2002 - Renewal	PI	\$13,500	\$13,500	Teaching Astronomy Undergraduate Research Under the Stars (TAURUS)
GE Summer Class Development Release - 2002	PI	Faculty Replacement Cost	Faculty Replacement Cost	Phcs 127 general improvements - particularly lab development
MEG - 2003 - Renewal	PI	\$12,300	\$12,300	Teaching Astronomy Undergraduate Research Under the Stars (TAURUS)

Graduate Mentoring Award for Aubrie Maxwell	PI/Mentor	\$4,000	\$4,000	Giant Balls of Gas Pulsating Billions of Miles Away
MEG - 2006	PI	\$13,310	\$13,310	Stellar Variation Caused by Pulsations, Eclipses, and Extra-Solar Planets (PEEPs)
College CHIRP – 2008 (proposal funded from other funds)	PI	\$47,000	\$47,000	Science Education Using Accurately Rendered Animations
College HITS – 2010	PI	\$3750	\$3750	Development of teaching tools for the Planetarium's Digistar4 System
MEG – 2010	PI	\$20,000	\$20,000	Massive Stars vs. Black Holes – The Real Star Wars
MEG - 2012	PI	\$20,000	\$20,000	Education in Challenging Environments for Deaf Audiences
College Funds – 2018	PI	\$20,000	\$11,500	Update of ESC Observation Deck for Teaching and Research
Total			\$167,360	

Telescope Time Proposals:

Observatory	Status	Nights	Title of Project
Dominion Astrophysical Observatory 1.2-m Telescope 2001 (2)	PI	20	Time-Series Radial Velocity Measurements for Six delta Scuti / gamma Doradus Stars
DAO 1.2-m Telescope 2002 (3)	PI	21	Radial Velocities Measurements of delta Scuti Variables
DAO 1.8-m Telescope 2002 (2)	PI	13	High Density Time-Series Photometry of Delta Scuti Stars
DAO 1.2-m Telescope 2003 (3)	PI	16	Spectroscopic Measurements of delta Scuti Variable
DAO 1.8-m Telescope 2003 (3)	PI	17	Spectroscopic Measurements of delta Scuti Variable
DAO 1.2-m Telescope 2004 (2)	PI	14	An Examination of delta Scuti Variables in the Region of Calcium H&K - Continued
DAO 1.8-m Telescope 2nd Quarter 2004	PI	7	Spectroscopic Measurements of delta Scuti Variable
DAO 1.8-m Telescope 3rd Quarter 2004	Co-PI	5	Stromgren Photometry of Open Clusters
DAO 1.2-m Telescope 2nd Quarter 2005	PI	8	Spectroscopic Calibration of Ca II HK filters
DAO 1.8-m Telescope 2nd Quarter 2005	PI	8	Photometry of Open Clusters and Field Stars with Narrow Ca II HK Filters
DAO 1.2-m Telescope 3 rd and 4 th Quarters 2005 (robotic)	PI	27	An Examination of H-alpha and H-beta indexes over a wide range of spectral types
DAO 1.8-m Telescope 4th Quarter 2005	PI	12	Photometry of Open Clusters and Field Stars with Narrow Ca II HK Filters: Winter Targets
DAO 1.2-m Telescope 4th Quarter 2005	PI	6	Spectroscopic Calibration of Ca II HK filters
DAO 1.2-m Telescope 1 st and 2 nd Quarters 2006 (robotic)	PI	27	Two Different Narrow Filter Programs
DAO 1.2-m Telescope 2nd Quarter 2006	PI	6	H-gamma to Ca II H&K spectral observations of standard stars
DAO 1.8-m Telescope 2nd Quarter 2006	PI	11	Photometry of Open Clusters and Field Stars with Narrow Ca II HK Filters: Spring/Summer Targets
DAO 1.2-m Telescope 4 th Quarter 2006 (robotic)	PI	15	H-alpha to H-beta observations of standard calibration stars
DAO 1.2-m Telescope 4 th Quarter 2006	PI	6	Rotational velocity measurements in the region of H-beta for rotational velocity standards

DAO 1.8-m Telescope 4 th Quarter 2006	PI	7	Baseline observations of open clusters for the PEEPs project
DAO 1.2-m Telescope 2007 (robotic)	PI	39	H-alpha to H-beta observations of standard calibration stars – (4 proposals/yr, received time in each)
DAO 1.2-m Telescope 2008 (robotic)	PI	36	H-alpha to H-beta observations of standard calibration stars – (4 proposals/yr, received time in each)
DAO 1.2-m Telescope 2009 (robotic)	PI	28	H-alpha to H-beta observations of standard calibration stars – (4 proposals/yr, received time in each)
DAO 1.2-m Telescope 2010 (robotic)	PI	49	H-alpha to H-beta observations of standard calibration stars – (4 proposals/yr, received time in each)
DAO 1.8-m Telescope 2010	PI	6	Phscs 329 Proposal
DAO 1.2-m Telescope 2011 (robotic)	PI	40	H-alpha to H-beta observations of standard calibration stars – (4 proposals/yr, received time in each)
DAO 1.2-m Telescope 2012 (robotic)	PI	44	Application of H-alpha/H-beta Spectrophotometry to a Variety of Targets (4 proposals/yr, each received time)
DAO 1.2-m Telescope 2012 (robotic)	Co-PI	8	Young Stellar Objects Using H-alpha/H-beta Spectrophotometry (2 proposals this year, each received time)
DAO 1.2-m Telescope 2013 (robotic)	PI	42	Application of H-alpha/H-beta Spectrophotometry to a Variety of Targets
DAO 1.8-m Telescope 2013	Co-PI	2	
DAO 1.2-m Telescope 2014 (robotic)	PI	45	Application of H-alpha/H-beta Spectrophotometry to a Variety of Targets
DAO 1.2-m Telescope 2015 (robotic)	PI	43	Application of H-alpha/H-beta Spectrophotometry to a Variety of Targets
DAO 1.2-m Telescope 2016 (robotic)	PI	48	Variation of H-alpha index across luminosity classes
DAO 1.2-m Telescope 2017 (robotic)	PI	49	Variation of H-alpha index across luminosity classes
DAO 1.2-m Telescope 2018 (robotic)	PI	49	Monitoring Cepheid Variables using the H-alpha Index
DAO 1.2-m Telescope 2019 (robotic)	PI	51	Monitoring Cepheid Variables using the H-alpha Index
DAO 1.8-m Telescope 2019	PI	9	Polarimetry Measurements of Zet And
DAO 1.2-m Telescope 2020 (robotic)	PI	58	Monitoring Cepheid Variables using the H-alpha Index
DAO 1.8-m Telescope 2020 (robotic)	PI	15	Light curves of faint suspected pulsating variables
DAO 1.2-m Telescope 2021 (robotic)	PI	46	Monitoring Cepheid Variables using the H-alpha Index
DAO 1.8-m Telescope 2021 (robotic)	PI	46	Light curves of faint suspected pulsating variables
DAO 1.2-m Telescope 2021 (robotic)	PI	44	Luminosity class changes for the H-alpha System
DAO 1.8-m Telescope 2021 (robotic)	PI	51	Light curves of faint suspected pulsating variables
DAO 1.2-m Telescope 2022 (robotic)	PI	44	
DAO 1.8-m Telescope 2022 (robotic)	PI	51	
DAO 1.2-m Telescope 2023 (robotic)	PI	45	
DAO 1.8-m Telescope 2023 (robotic)	PI	50	
DAO 1.2-m Telescope 2024 (robotic)	PI	10	
DAO 1.8-m Telescope 2024 (robotic)	PI	10	
Total 1.8-m Live Nights		97	Estimate \$1000/night (\$97,000)
Total 1.8-m Robotic Nights		112	Estimate \$1200/night (\$134,400)
Total 1.2-m Live Nights		97	Estimate \$600/night (\$58,200)
Total 1.2-m Robotic Nights		800	Estimate \$900/night (\$720,000)
			Estimated Total: \$1,009,600

Other Relevant Experience:**Research Telescope Experience:**

- Capilla Peak Observatory 24" Telescope (New Mexico State University)
 - 1990
 - 17 Nights of CCD Observing through wide filters
 - Imaging of CfA galaxies in UBVRI Johnson filters
- West Mountain Observatory 24" Telescope (Brigham Young University)
 - 1989 - 2001
 - 15 nights of photomultiplier observations through narrow filters
 - Variable star photometric observations
- West Mountain Observatory 16" Telescope (Brigham Young University)
 - 1995 - 2001
 - Software development for CCD camera system
 - 5 nights of test observations
- Burrell Schmidt 24"/36" Telescope (Case Western Reserve University)
 - 1990-1995
 - Over 100 nights of CCD observing
 - Deep imaging of galaxies in rich Abell clusters (dissertation research)
 - Narrow filter deep imaging of nearby galaxies
 - Time series photometry of variable stars
 - Time series photometry of quasars
 - Narrow filter imaging, and reddening analysis, of high galactic latitude nebula
- Orson Pratt Observatory 16" David Derrick Telescope (Brigham Young University)
 - 1995 - 2018
 - Installation of telescope - including alignment
 - Test of optical system, including CCD test images at time of first light
 - Design of telescope control software
 - Over 200 nights of observing
- Orson Pratt Observatory 24" David Derrick Telescope (Brigham Young University)
 - 2019 - current
 - Installation of telescope - including alignment
 - Test of optical system, including CCD test images at time of first light
 - Automation of Dome
- Orson Pratt Observatory 6", 8", 10", and 12" Observation Deck Telescopes (Brigham Young University)
 - 2000 - current
 - Installation of telescope and testing of CCD systems
 - Operation of telescopes
- Dominion Astrophysical Observatory 1.22-m Telescope (National Research Council of Canada)
 - 2001 - current
 - 8 nights in 2001 -Radial Velocity Speedometer observations
 - 710 nights in 2002-2021: medium-high dispersion spectroscopy – robotic observations
- Dominion Astrophysical Observatory 1.85-m Telescope (National Research Council of Canada)
 - 7 nights in 2002 - BVRI Imaging
 - 8 nights in 2005 - CaII HK imaging and calibration
 - 27 nights in 2003-2004: medium-high dispersion spectroscopy
 - 9 nights of polarimetry data in 2019 targeting Zet And
 - 25 nights of photometry 2020-2021

- ARC 3.5-m Telescope
 - Currently in training for telescope operations
 - First research observations for both graduate students in January 2022

Computer Experience:

- Programming Languages:
 - C, Fortran, Pascal, BASIC, FORTH, Assembly Language
 - C++ windows oriented programming
- IRAF computer experience
 - Knowledge of entire package, including STSDAS
 - IRAF scripting language experience
- Data reduction computer programming
 - Photometric galaxian fitting package that uses CCD data
 - Stellar light curve fitting package
 - Differential Photometry Package (now on version 6)
- Instrumentation control computer programming
 - Telescope control software BYU 16" DDT Telescope
 - CCD control software for SpectroSource CCD system
- World Wide Web programming (HTML and scripts)
 - Working knowledge of HTML markup language
 - Development of Variable Star Database
 - Development of online funding application for department

Referee Service for the Journals and National Science Foundation:

April - May 2003: Reviewed paper for the journal *Astronomy and Astrophysics* -- "Atmospheric Properties and Abundances of the delta Scuti star FG Virginis", by P. Mittermayer and W.W. Weiss

February 2005: Reviewed paper for the *Publications of the Astronomical Society of the Pacific* -- "A Dozen delta Scuti stars in the Open Cluster NGC 1817", by T. Arentoft, M.Y. Bouzid, C. Sterken, L.M. Freyhammer, and S. Frandsen

June-September 2005: Reviewed paper for the *Publications of the Astronomical Society of the Pacific* -- "FCAPT uvby photometry of the mCP stars HD 20629, HR 3724, 45 Leo, HD 192678" by S.J. Adelman

April-October 2006: Reviewed paper for the *Astronomical Journal* -- "A Complicated Pulsation delta Scuti Variable in the Praesepe: HD 74028", by Z.P. Li

July 2007: Reviewed paper for the *Astronomical Journal* -- "Pulsation of EE Camelopardalis", by M. Breger, S.M. Rucinski, and P. Reegen

December 2008-February 2009: Reviewed paper for the *Publications of the Astronomical Society of the Pacific* -- "Pulsations and Period Changes of the SX Phoenicis Star DY Pegasi", by J.N. Fu et al.

May 2009 – Present : Reviewed paper for the *Publications of the Astronomical Society of the Pacific* -- "A delta Scuti Variable in the alpha Persei Cluster: V461 Per", by Li and Yan

October 2009 – November 2009: Reviewed paper for the *Astronomical Journal* – "The TAOS Project Stellar Variability II. Detection of Low Amplitude delta Scuti Stars", by Kim et al.

November 2009 – December 2009: Reviewed four NSF proposals for the MRI-R² funding program

December 2009 – Present: Reviewed paper for *Astrophysical Journal* – "Hybrid gamma Doradus – delta Scuti pulsators: New Insights into the Physics of the Oscillations from Kepler Observations", by Grigahcencu et al.

February 2010 – March 2010: Reviewed paper for *Journal of the American Association of Variable Star Observers* – "Two new variable stars in the fields of Novae Cygni 2006 and 2007", by Boyd

April 2010 – May 2010: Reviewed paper for *Publications of the Astronomical Society of Japan* – "A Period Investigation of the delta Scuti Star AN Lyncis"

May 2010 – June 2010: Reviewed paper for *Publications of the Astronomical Society of the Pacific* – "HD 74050: A delta Scuti Variable in the Praesepe Cluster", Li et al.

January 2011 – February 2011: Reviewed Paper for *The Physics Teacher* – "Revealing the Hidden Wave: Using the Very Small Radio Telescope to Teach High School Physics", Doherty, Fish, and Needles

January 2011: Review of four NSF MRI proposals

November 2012 to December 2012 – Reviewed paper for *Nature* – "The planet frequency in star clusters from the discovery of two transiting mini-Neptunes in NGC 6811", Melborn et al.

December 2012 to February 2013 – Review paper for *Astronomical Journal* – "Statistical Properties of Galactic Delta Scuti Stars: Revisited", Chang et al.

August 2013 – Review paper for *The Physics Teacher* – "Review of paper for inclusion in journal: Simulating the Phases of the Moon Shortly After Its Formation"

Referee Service for the Journals and National Science Foundation: (cont.)

January 2014 to April 2014 – Review paper for the Journal of the American Association of Variable Star Observers – “New Light Elements the δ Scuti Star RS Gru”, Axelsen.

October 2014 to January 2015 – Review of paper for Astronomical Journal - "The Herbig Be Star V1818 Ori and its Environment", Chiang, Reipurth, and Hillenbrand.

January 2017 to September 2017 - Review of paper for Monthly Notices of the Royal Astronomical Society – “Pulsations and Period Variations of the delta Scuti Star AN Lyncis”, Li, Geng et al.

July 2017 to September 2017 – Review of paper for Publications of the Astronomical Society of Japan – “High Amplitude delta Scuti Star BO Lyn, Evidence of AF-type Companion on Elliptical Orbit” – Could not resolve issues in the paper. Final recommendation was to reject.

March 2018 to May 2018 – Review of paper for Publications of the Astronomical Society of the Pacific – “Variability Analysis of delta Scuti Candidate Stars”, Pakstiene et al.

December 2018 to March 2019 – Review of paper for Publications of the Astronomical Society of the Pacific – “Pulsations of the SX Phe Star BL Camelopardalis”, Zong, et al.

October 2019 to November 2019 – Review of paper for the Journal of the American Association of Variable Star Observers – “CCD Photometry, Period Analysis and Evolutionary Status of the Pulsating Variable V 544 And”, blind review.

November 2019 to September 2020 – Review of paper for Religious Educator – “Joseph Smith: “This Earth was ... Formed out of Other Planets”, blind review

November 2020 to November 2021 – Review of paper for Interpreter: A Journal of Latter-Day Saint Faith and Scholarship – “A Comet, Christ’s Birth, and Herod’s Rage”

August 2021 to September 2021 – Review of paper for the JAAVSO – “Multi-periodic Behavior of Variable Type Star IN Librae”, blind review

September 2021 to October 2021 – Review of paper for the Astronomical Journal – “Asteroseismology of a high-amplitude delta Scuti star GSC 4552-1498: mode identification and model fitting”, Xiao-Ya et al.

August 2023 to September 2023 – Review of paper for the Astrophysical Journal – “TESS Observations of Seven Newly Identified High-Amplitude delta Scuti Stars”

Teaching Experience at BYU:

- Phscs 105 - Introductory Physics I (Non-Calculus Based)
 - Winter 1996 - 16 students (BYU Salt Lake Center)

- Phscs 106 - Introductory Physics II (Non-Calculus Based)
 - Fall 1995 - 173 students; Summer 2001 - 63 students; Summer 2003 - 52 students; Fall 2003 - 136 students; Summer 2005 - 64 students

- Phscs 127 - Descriptive Astronomy
 - Winter 1998 - 3 students (BYU Salt Lake Center)
 - Summer 1998 - 35 students
 - Fall 1998 - 165 students
 - Winter 1999 - 170 students
 - Fall 1999 - 162 students
 - Winter 2000 - 142 students
 - Fall 2000 - 154 students
 - Summer 2002 - Major revision of class, new grading, new projects, more scriptures
 - Fall 2002 - 54 students
 - Fall 2003 - 76 students
 - Fall 2005 - 91 students
 - Winter 2006 – 119 students
 - Fall 2006 – sec. 1 (83 students) and sec. 2 (116 students)
 - Fall 2007 – sec. 1 (117 students) and sec. 2 (121 students)
 - Fall 2008 – sec. 1 (120 students) and sec. 2 (121 students)
 - Fall 2009 – sec. 2 (119 students)
 - Fall 2010 – sec. 2 (109 students)
 - Winter 2012 – sec. 3 (112 students)
 - Fall 2012 – sec. 1 (115 students)
 - Fall 2013 – sec. 3 (98 students)
 - Fall 2014 – sec. 3 (92 students)
 - Winter 2015 – sec. 4 evening (71 students)
 - Winter 2016 – sec. 3 (58 students)
 - Winter 2019 – sec. 4 (119 students)

- Phscs 329 - Observational Astronomy
 - Complete creation of class in Fall 1998
 - Winter 1999 - 13 students; Winter 2000 - 11 students; Winter 2001 - 13 students; Winter 2002 - 13 students; Winter 2003 - 13 students; Winter 2004 - 14 students; Winter 2005 - 15 students; Winter 2006 – 10 students; Winter 2007 – 11 students; Winter 2008 – 8 students; Winter 2009 – 7 students; Winter 2010 – 16 students
 - Winter 2011 – 19 students (modifications made to accommodate more students)
 - Winter 2012 – 11 students
 - Winter 2013 – 13 students
 - Winter 2014 – 16 students (modifications to teaching order)
 - Winter 2015 – 16 students, Fall 2015 – 6 students (move to more lab based class)
 - Winter 2016 – 11 students (completing move to more lab based class)
 - Fall 2016 – 9 students (very high reviews, the changes are working)
 - Winter 2017 – 12 students, Fall 2017 – 9 students
 - Winter 2018 – 14 students, Fall 2018 – 9 students (finish integration of robotic telescopes into class)
 - Winter 2019 – 11 students, Fall 2019 – 12 students
 - Winter 2020 – 15 students, Fall 2020 – 11 students
 - Winter 2021 – 8 students, Fall 2021 – 13 students
 - Winter 2022 – 17 students, Fall 2022 – 7 students
 - Winter 2023 – 16 students, Fall 2023 – 8 students

- Phscs 427 – Senior Astrophysics – Stellar Astrophysics
 - Fall 2015 – 7 students (complete redo of class to bring into modern astrophysics)

- Fall 2016 – 10 students
- Fall 2017 – 9 students
- Fall 2018 – 9 students
- Fall 2019 – 8 students
- Fall 2020 – 14 students
- Fall 2021 – 17 students
- Fall 2022 – 24 students
- Fall 2023 – 12 students
- Phscs 529 - Observational Astrophysics
 - Fall 2000 - 5 students
 - Fall 2001 - 4 students - revisions during class - didn't work well
 - Summer 2002 - Major revisions to new class format
 - Fall 2002 - 7 students - revisions helped a lot
 - Fall 2004 - 4 students; Fall 2005 - 3 students; Fall 2006 – 5 students
 - Fall 2008 – 7 students
 - Fall 2010 – 6 students (Completely new version of the class)
- Phscs 612 - Stellar Interiors (renumbered from Phscs 627)
 - Fall 2001 - 4 students
 - Fall 2004 - 2 students
 - Winter 2007 – 3 students
 - Winter 2010 – 6 students
 - Winter 2012 – 2 students
 - Fall 2014 – 2 students
 - Fall 2017 – 2 students
 - Winter 2021 – 3 students
 - Winter 2024 – 7 students
- PS 110 A - Physical Science for Education Majors
 - Spring 1999 - 16 students
- Hon P 243R - History of Manned Spaceflight
 - Winter 2001 - 22 students (New Honors Class)
 - Winter 2003 - 19 students
- Phscs 313 R – Planetarium and Telescope Operations
 - Winter 2007 – team taught – 9 students (development of brand new class)
 - Winter 2008 – team taught – 15 students
 - Winter 2009 – team taught – 4 students
 - Winter 2010 – team taught – 7 students
 - Winter 2011 – team taught – 9 students
 - Winter 2012 – team taught – 7 students
 - Winter 2013 – team taught – 10 students
 - Winter 2014 – team taught – 8 students
 - Winter 2015 – team taught – 9 students
 - Winter 2016 – team taught – 5 students
- Phscs 727 – Extragalactic Astrophysics – Large Scale Structure
 - Winter 2012 – 1 student (new prep)
 - Winter 2014 – 3 students
 - Winter 2017 – 1 student
 - Winter 2020 – 1 student

Public Outreach and Service:

- 2013 BSA Utah National Parks Council – Committee on STEM development
 - Nova Program Improvements.
- BYU Boy Scout Merit Badge Pow Wow – Astronomy Merit Badge
 - Fall 2012 to Fall 2019 (twice a year)
 - Instructor and counselor
 - Designed program for planetarium, deck and dome
- Orson Pratt Observatory 5", 8", 10", 12", and 16" Telescopes (Brigham Young University)
 - Over 100 nights of directing general public observing
 - Introductory astronomy class laboratory nights
- Sarah B. Summerhays Planetarium and Royden G. Derrick Planetarium (Brigham Young University)
 - Public Lectures - Star of Bethlehem Show Each December
 - Shows for public school students
 - Astronomy labs for introductory astronomy class
- BYU Astronomical Society Co-Advisor (1998 - 2004)
 - Monitor observation deck and campus telescopes
- Church Calling (only those since joining faculty)
 - Elder's Quorum Secretary (March 1998 - March 2000)
 - Ward Clerk (March 2000 to September 2002)
 - Released due to purchase of new home and move
 - Ward Financial Clerk (March 2004 to July 2008)
 - Teacher's Quorum Advisor (April 2008 to 2010)
 - Stake Auditor (2010 to present)
- Boy Scout Merit Badge Counselor
 - Astronomy
 - Sports
 - Geocaching
 - Photography
 - Nuclear Science
 - 13 others
- Project ASTRO - Utah (1998)
 - Partner : Jennifer Miyakawa - Sharon Elementary School, Orem, Utah
- Project to install a 10" research telescope at Payson High School
 - Working with Linda Walter - Physics Teacher
 - External funding to complete project
 - \$4874 from AAS Small Research Grant (received 2002)
 - Delivered October 9, 2002
- Editorial work for Elder Neal A. Maxwell
 - Talk at 26th Annual CES Religious Educators Conference : 13 August 2002
 - 'Our Creator's Cosmos'
 - Additional help with astronomy related talk for December 2002
- ORCA Undergraduate Research Scholarship Reviewer
 - 2003-2006 member of standing committee
- Submission for the Sacred Stewardship Conference
 - Abstract entitled "A Sky of Signs and Wonders"
 - Presentation at conference at BYU in February 2004
 - Published in Borrowed Earth
- Organized Mars Opposition Star Party for August 27th and 28th, 2003
 - Estimated 900 people between the two nights
- Centennial Middle School Career Day – 2004
- Sterling Scholar Regional Judge – 2008
- BYU activities during the 2009 International Year of Astronomy
- Utah Valley University – Monthly Star Parties – 2021 to present

Students Project Advisor:

- **Graduate Students**

- PhD Dissertation (chair)
 - Scott Call – Present
- Master's Thesis (chair)
 - Phillip Warner - August 2003
 - Mariya Ivanushkina - August 2004
 - Aubrie Maxwell - August 2004
 - M. Benjamin Rose - August 2006
 - Tabitha Bush – August 2007
 - Kathleen Moncrieff – August 2007
 - Miriam West – August 2010
 - Jessica Bugno – April 2011
 - Heather Jones – December 2012
 - Muxue Liu – January 2015
 - Jarrod Hansen – (left program)
 - Molly Christensen - Present
- Thesis/Dissertation Committee Member
 - Matthew Garvin - M.S. 2000
 - Liberty Schwendiman - M.S. 2002
 - Steve McNeil - Ph.D. 2004
 - Brian Bucklien - Ph.D. – 2010
 - Chris Draper – M.S. - 2011
 - Tabitha Bush – Ph.D. – 2011
 - Kathleen Moncrieff – Ph.D. – 2011 (External reviewer for St. Mary's University in Halifax, Nova Scotia)
 - Carla Carroll – M.S. – 2015
 - Brandon Wiggins – Ph.D. – 2016
 - Derek Felli – Ph.D. – 2017
 - Emily Safsten – M.S. - 2017
 - Chris Draper – Ph.D. – 2019
 - Rochelle Steele – M.S. – 2021
 - Benjamin Proudfoot – Ph.D. - present
 - Daniel Jones – M.S. – Present
 - Jared Davidson – M.S. – Present
 - Kyle Adams – M.S. - Present

- **Undergraduate Students**

- Honor's Thesis
 - Matthew Garvin 1999
 - Kate Despain 2002
 - Andrew Davis - 2005
 - Steven Grey – 2006
- Senior Thesis
 - Liberty Schwendiman 2000
 - Celeste Yeates 2000
 - M. Benjamin Rose - 2004
 - Tabitha Bush - 2005
 - Kathleen Moncrieff - 2005
 - Oliver Woodland – 2006
 - Ryan Wessel – 2006
 - David Broadbent – 2006
 - Patrick Baugh – 2006

- Roo Phillips – 2007
- Jennifer Stanley – 2007
- Nick Stanley – 2007
- Chris Draper – 2007
- Sarah Schuff – 2007
- Amanda Henderson – 2008
- Tiffany Brown – 2008
- Alie Porter – 2008
- McKay Bonham - 2008
- Miriam West – 2008
- DK Merrill – 2009
- Kelsey Jorgensen – 2009
- Jeremy Schoonmaker – 2010
- Holly Mumford – 2013
- Nathaly Zurita – 2014
- Robert Foster – 2015
- Marissa Mannard – 2016
- Rachael Hunter – 2016
- Joel Bradley – 2016
- Carrie Beckstead – 2017
- Hugh Bates – 2017
- Adam Pierce – 2017 (no thesis)
- Andy Hernandez – 2018
- Adam Bugg – 2019
- Seth Clarke – 2019
- Jarrod Hansen – 2021
- Jared Davidson – 2021
- Jacob Jensen – 2022
- Tyler Harding – 2022
- Alexandra Nelson – currently on break from school
- Andrew Hargan – currently on break from school
- Libby Banks – 2023
- McKenna Myckowiak – 2023
- Christiana Zaugg – 2023
- Kaelyn Clement – Present
- Tim Morrell – Present
- Perri Coggins – Present
- Billy Lyons - Present
- ORCA Undergraduate Research Scholarship Proposals
 - Matthew Garvin 1999 - **Funded**
 - Liberty Schwendiman - not funded
 - Phil Warner - not funded
 - Bryan Erickson - not funded
 - Aubrie McLean - 2000 - not funded
 - SummerDale Beckstand - 2000 - not funded
 - Matthew Bird - 2000 - not funded
 - Aubrie McLean - 2001 - not funded
 - Catherine Morris - 2003 - **Funded**
 - Michael B. Rose - 2003 - not funded
 - Andrew Davis - 2004 - **Funded**
 - Tabitha Bush - 2004 - not funded
 - Tabitha Bush - 2005 - not funded
 - Kathleen Moncrieff - 2005 - not funded

- Oliver Woodland – 2006 - not funded
- Ryan Wessel – 2006 - not funded
- Kelsey Jorgensen – 2009 – **Funded**
- Holly Mumford – 2012 – **Funded**
- Adam Pierce – 2013 – not funded
- Andrew Hernandez – 2013 – not funded
- Nicole Smith – 2013 – not funded.
- Leanne Lunsford – 2015 – **Funded**
- Adam Bugg – 2016 - **Funded**

Summer Student/Teacher Research Advisor:

- Summer REU Advisor
 - Jacob Albretsen - 1998
 - Jacob Starr, Andy Rondoldo, Mathew Garvin - 1999
 - Hwa-Jung Lee - 2000
 - Sarah McGregor, Wes Johnston - 2001
 - Linda Walter - 2001 (RET)
 - Cassie Lundell, Jessica Baughman - 2002
 - Kristina Thomas, Carolee Blackham - 2003
 - Anthony Romanello - 2003 (RET)
 - Andrew Davis, Jennifer Pollack - 2004
 - Sarah Griffith – 2005
 - Carrie Hoffer, Christine Forsyth, William Gray – 2006
 - Tiffany Brown, Noel Barragan, Larry Camarota – 2007
 - Mike Ford (RET) – 2007
 - Jessica Bugno – 2008
 - Mike Ford (RET) – 2008
 - Mark Henry – 2009
 - William (RET) – 2009
 - Juan Payan – 2010
 - Matt (RET) – 2011
 - Nathaly Zurita – 2011
 - Olivia Mulherin – 2014
 - David Black (RET) – 2014
 - Marissa Mannard – 2015
 - Annie Blackwell – 2017
 - Wilber Dominguez – 2019
 - Hera Wiegand - 2019

- High School Intern
 - Robby Robinson – 2010
 - Maren Rawlins - 2018

Publication List – Astronomy/Astrophysics Journal Articles

A green * indicates an undergraduate co-author.

Banks, E.E., **Hintz, E.G.** et al., “Period Changes in the delta Scuti Variable V2455 Cygni”, 2024, JAAVSO, planned submission 2024 *

Call, S.G., **Hintz, E.G.**, Ardern, S., Scowcroft, V. & Morrell, T.D., “Changing CO Bands in Near-IR Spectra of CP Cephei”, 2024, arXiv, arxiv:2401.01318 *

Harding, T. B. & **Hintz, E.G.**, “H-alpha and H-beta Measurements of X Persei and gamma Cas”, 2022, JAAVSO, 51, 2, 143 *

Rodriguez, J.E. et al. (123 additional authors), “Another Shipment of Six Short-Period Giant Planets from TESS”, 2023, Monthly Notices of the Royal Astronomical Society, 521, 2, 2765

Hintz, E.G., Hansen, J.L., Stephens, D.C., & Derieg, “An Examination of a delta Scuti Variable from the ATLAS Survey: ATO J031.2309+52”, 2022, JAAVSO, 50, 5 *

Hintz, E.G., Harding, T. B., & Hintz, M.L. “An Examination of Pulsational Changes in the Classical Cepheid X Cygni”, 2021, Astronomical Journal, 162, 149 *

Kostov, V.B., Powell, B.P., ..., **Hintz, E.G.**, and 80 additional authors, “TIC 172900988: A Transiting Circumbinary Planet Detected in One Sector of TESS Data”, 2021, Astronomical Journal, 162, 234

Hintz, E.G., Hansen, J.L., Jensen, J.S. & Banks, E.E. “Confirmation of Short Period Pulsating Variables Using and Array of Robotic Telescopes”, 2020, JAAVSO, 48, 264 *

Hansen, J.L., Liechty, S.F. and **Hintz, E.**, “Reporting on Misidentification of the Variable Star TYC30559881 in the KELT Survey”, 2019, RNAAS, 3, 166 (moderated instead of refereed) *

Bugg, A.G. and **Hintz, E.**, “Photometric Measurements of H-alpha in the Cepheid Variable CD Cygni”, 2019, RNAAS, 3, 63 (moderated instead of refereed) *

Collins, K.A. et al. (110 coauthors), “The KELT Follow-Up Network and Transit False Positive Catalog: Pre-vetted False Positives for TESS”, 2018, Astronomical Journal, 156, 234

Johnson, M.C. et al. (67 coauthors), “KELT-21b: A Hot Jupiter Transiting the Rapidly-Rotating Metal Poor Late-A Primary of a Likely Hierarchical Triple System”, 2018, Astronomical Journal, 155, 100

Moody, J.W., **Hintz, E.G.**, Joner, M.D., Roming, P.W., & Hintz, M.L., “Point and Compact H-alpha Sources in the Interior of M33”, 2017, Astronomical Journal, 154, 268

Moody, J.W., Whipple, P., Hindmann, L., Van Alfen, N., Barnes, J., Ducharme, N., Rivest, L., Osborne, M., Holden, M., Pace, C., Pearson, R., Little, B., & **Hintz, E.G.**, “Automated Polarimetry with Smaller Aperture Telescopes: The ROVOR Observatory”, 2017, Galaxies, 5 (4), 70 *

Zhou, A.-Y., **Hintz, E.G.**, Schoonmaker, J.N., et al. (7 coauthors), “A Pulsational Time-Evolution Study for the delta Scuti Star AN Lyncis”, 2017, arXiv, arxiv:1710.03944 *

Pepper, J. et al. (38 coauthors), “KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the V=8 Subgiant HD 93396”, 2017, Astronomical Journal, 153, 215

Bucklein, B.K, Moody, J.W., & **Hintz, E.G.**, “The Effect of Neaby Voids on Galaxy Number Counts”, 2016, arXiv, arxiv:1607.05762

Joner, M.D. & **Hintz, E.G.**, & Corfini, “Discovery and Photometric Analysis of the delta Scuti Variable TYC 2168-132-1”, 2016, JAVSO, 44, 131

Joner, M.D. & **Hintz, E.G.**, “Standard Stars and Empirical Calibrations for H-alpha and H-beta Photometry”, 2015, *Astronomical Journal*, 150, 204

Barth, Aaron J., Nguyen, My L., Malkan, Matthew A., Filippenko, Alexei V., Li, Weidong, Gorjian, Varoujan, Joner, Michael D., Bennert, Vardha Nicola, Botyanszki, Janos, Cenko, S. Bradley, Childress, Michael, Choi, Jieun, Comerford, Julia M., Cucciara, Antonino, da Silva, Robert, Duchêne, Gaspard, Fumagalli, Michele, Ganeshalingam, Mohan, Gates, Elinor L., Gerke, Brian F., Griffith, Christopher V., Harris, Chelsea, **Hintz, Eric G.**, Hsiao, Eric, Kandrashoff, Michael T., Keel, William C., Kirkman, David, Kleiser, Io K. W., Laney, C. David, Lee, Jeffrey, Lopez, Liliana, Lowe, Thomas B., Moody, J. Ward, Morton, Aleksandar, Nierenberg, A. M., Nugent, Peter, Pancoast, Anna, Rex, Jacob, Rich, R. Michael, Silverman, Jeffrey M., Smith, Graeme H., Sonnenfeld, Alessandro, Suzuki, Nao, Tytler, David, Walsh, Jonelle L., Woo, Jong-Hak, Yang, Yizhe, Zeisse, Carl, “Broad-line Reverberation in the Kepler-field Seyfert Galaxy Zw 229-015”, 2011, *Astrophysical Journal*, 732, 121-134

Rodríguez, E., García, J. M., Costa, V., Lampens, P., van Cauteren, P., Mkrtichian, D. E., Olson, E. C., Amado, P. J., Daszyńska-Daszkiewicz, J., Turcu, V., Kim, S.-L., Zhou, A. Y., López-González, M. J., Rolland, A., Díaz-Fraile, D., Wood, M. A., **Hintz, E.**, Pop, A., Moldovan, D., Etzel, P. B., Casanova, V., Sota, A., Aceituno, F. J., Lee, D.-J., “ δ Sct-type pulsations in eclipsing binary systems: Y Cam”, 2010, *Monthly Notices of the Royal Astronomical Society*, 408, 2149-2162

Fauvaud, S., Sareyan, J.-P., Ribas, I., Rodríguez, E., Lampens, P., Klingenberg, G., Farrell, J. A., Fumagalli, F., Simonetti, J. H., Wolf, M., Santacana, G., Zhou, A.-Y., Michel, R., Fox-Machado, L., Alvarez, M., Nava-Vega, A., López-González, M. J., Casanova, V. M., Aceituno, F. J., Scheggia, I., Rives, J.-J., **Hintz, E. G.**, van Cauteren, P., Helvacı, M., Yesilyaprak, C., Graham, K. A., Král, L., Kocián, R., Kučáková, H., Fauvaud, M., Granslo, B. H., Michelet, J., Nicholson, M. P., Vugnon, J.-M., Kotková, L., Truparová, K., Ulusoy, C., Yasarsoy, B., Avdibegovic, A., Blažek, M., Kliner, J., Zásche, P., Bartošiková, S., Vilásek, M., Trondal, O., van den Abbeel, F., Behrend, R., Wücher, H., “The field high-amplitude SX Phe variable BL Cam: results from a multisite photometric campaign. II. Evidence of a binary - possibly triple – system”, 2010, *Astronomy and Astrophysics*, 515, 1-7

Bugno, J.L., **Hintz, E.G.**, and Joner, M.D., "Optical Light Curves of the High Mass X-ray Binary 4U 2206+54", 2009, *Information Bulletin of Variable Stars*, 5911, 1-4

Hintz, E.G., Bugno, J.L., and Joner, M.D., "A Period Analysis of the δ Scuti Variable GCS 03973-01698", 2009, *Information Bulletin of Variable Stars*, 5891, 1-4

Hintz, E.G., and Schoonmaker, J.N., “Baseline Observations of the Medium Amplitude δ Scuti Variable V873 Herculis”, 2009, *Publications of the Astronomical Society of the Pacific*, 121, 343-349 *

Martin-Ruiz, S., Rodriguez, E., Grigahcene, A., Suarez, J.C., Moya, A., Costa, V., Rolland, A., Amado, P.J., **Hintz, E.G.**, Kim, S.L., Oh, S., Kusakin, A.V., Zhou, A.Y., Arellano, A., Peniche, R., Pena, J.H., & Sareyan, J.P., “Gamma Doradus variable stars in the Pleiades cluster: results from a photometric multisite campaign”, 2008, *Journal of Physics: Conference Series*, 118, 1-6

Bush, T.C., and **Hintz, E.G.**, “Rotational Velocities Determinations for 118 δ Scuti Variables”, 2008, *Astronomical Journal*, 136, 1061

Rose, M.B., and **Hintz, E.G.**, “A Search for Low-Amplitude Variability In Six Open Clusters Using the Robust Median Statistic”, 2007, *Astronomical Journal*, 134, 2067-2078

Rodríguez, E., Fauvaud, S., Farrell, J.A., Zhou, A-Y., Sareyan, J-P., Lopez-Gonzalez, M.J., Dupret, M-A., Grigahcene, A., de Ridder, J., Klingenberg, G., Wolf, M., Van Cauteren, P., Lampens, P., Martinez, D., Casanova, V.M., Aceituno, F.J., Helvacı, M., **Hintz, E.G.**, Kral, L., Fumagalli, F., Simonetti, J.H., Granslo, B.H., Kotkova, L., Santacana, G., Michelet, J., Fauvaud, M., Vugnon, J-M., Martin-Ruiz, S., Amado, P.J., Suarez, J.C., Moya, A., Kucakova, H., Kocian, R., Truparova, K., Avdibegovic, A., Blazek, M., Kliner, J., Zásche, P., Vilasek, M., Bartosikova, S., Yasarsoy, B., Ulusoy, C., Graham, K.A., Nicholson, P.M., Trondal, O., “The Field High-Amplitude SX Phe Variable BL Cam: Results from a Multisite Photometric Campaign. I. Pulsation”, 2007 *Astronomy and Astrophysics*, 471, 255-264

Rodriguez, E., Fauvaud, S., Farrell, J.A., Zhou, A-Y., Sareyan, J-P., Lopez-Gonzalez, M.J., Klingenberg, G., Wolf, M., Rolland, A., Lopez de Coca, P., Van Cauteren, P., Lampens, P., Helvaci, M., **Hintz, E.G.**, Kral, L., Fumagalli, F., Simonetti, J.H., Granslo, B.H., Kotkova, L., Santacana, G., Michelet, J., Kucakova, H., Kocian, R., Truparova, K., Avdibegovic, A., Blazek, M., Klinier, J., Zasche, P., Vilasek, M., Bartosikova, S., Trondal, O., "Asteroseismology of the Extreme Metal-Deficient Field High-Amplitude SX Phe variable BL Cam", 2007 Communications in Asteroseismology, 150, 61-62

Rodríguez, E., García, J. M., Costa, V., van Cauteren, P., Lampens, P., Olson, E. C., Amado, P. J., López-González, M. J., Rolland, A., López de Coca, P., Turcu, V., Kim, S.-L., Zhou, A.-Y., Wood, M. A., **Hintz, E.**, Pop, A., Moldovan, D., Etzel, P. B., Lee, D.-J., Handler, G., Mkrtichian, D. E., "δ Sct stars in eclipsing binaries: the case of Y Cam", 2007, Communications in Asteroseismology, 150, 63-64

Hintz, E.G., and Brown, P.J., "Revised Periods for QS Geminorum and V367 Geminorum", 2007, Publications of the Astronomical Society of the Pacific, 119, 274-283 *

Hintz, E.G., Rose, M.B., Bush, T.C., Maxwell, A.A., "Establishing Observational Baselines for Two Medium Amplitude δ Scuti Variables: V1438 Aquilae and V966 Herculis", 2006, Astronomical Journal, 132, 393-400 *

Hintz, E.G., Bush, T.C., and Rose, M.B., "Monitoring Three Less Studied δ Scuti Variable: GW Ursae Majoris, BO Lyncis, and AN Lyncis", 2005, Astronomical Journal, 130, 2876-2883 *

Hintz, E.G. and Rose, M.B., "Variable Stars in the Field of NGC 6882/85: The Case of V381 Vulpeculae and V382 Vulpeculae", 2005, Publications of the Astronomical Society of the Pacific, 117, 955-966

Hintz, E.G., Joner, M.D., Ivanushkina, M., and Pilachowski, K.A., "The Period Changes in the SX Phoenicis Star DY Pegasi", 2004, Publications of the Astronomical Society of the Pacific, 116, 543-554

Rodriguez, E., Garcia, J. M., Mkrtichian, D. E., Costa, V., Kim, S.-L., Lopez-Gonzalez, M. J., **Hintz, E.**, Kusakin, A. V., Gamarova, A. Y., Lee, J. W., Youn, J.-H., Janiashvili, E. B., Garrido, R., Moya, A., Kang, Y. W., "Pulsation and Binarity in RZ Cas", 2004, Communications in Asteroseismology, 145, 81-83

Rodríguez, E., García, J.M., Mkrtichian, D.E., Costa, V., Kim, S.L., López-González, M.J., **Hintz, E.**, Kusakin, A.V., Gamarova, A.Y., Lee, J.W., Yoon, J.H., and Janiashvili, E.B., Garrido, R., Moya, A., and Kang, Y. W., "δ Sct-Type Pulsators in Eclipsing Binary Systems: RZ Cas", 2004, Monthly Notices of the Royal Astronomical Society, 347, 1317-1326

Rodriguez, E.; Costa, V.; Lopez-Gonzalez, J. M.; Garcia, M. J.; Mkrtichian, E. D.; Gamarova, A.; Kusakin, A.; Kim, L. S.; Lee, W. J.; Yoon, H. J.; **Hintz, E.**, "Asteroseismology in eclipsing binary systems through multisite coordinated campaigns: The case of RZ Cas during the year 1999", 2003, Astronomical and Astrophysical Transactions, 22, 455-459

Yeates, C.M., **Hintz, E.G.**, Joner, M.D., and Schwendiman, L.R., "Times of Minimum Light for XY Ursa Majoris", 2000, Information Bulletin of Variable Stars, 4943, 1-4 *

Carroll, D.D., and **Hintz E.G.**, "New Eclipsing Variable in the Field of QS Geminorum", 2000, Information Bulletin of Variable Stars, 4928, 1-4 *

Hintz, E.G., Carroll, D.D., Fugal, J.P., Hale, D.T., and Ahlstrom, P.F., "The delta Scuti Star QS Geminorum", 2000, Information Bulletin of Variable Stars, 4927, 1-4 *

Joner, M.D., **Hintz, E.G.**, Schwendiman, L.R., and Laney, D., "An Anomalous Cycle in RY Leporis", 2000, Delta Scuti Newsletter, 14, 18

Hintz, E.G. and Garvin, M.B., "Pulsations of V927 Herculis", 2000, Information Bulletin of Variable Stars, 4869, 1-4 *

Hintz, E.G., Hintz, M.L., Joner, M.D., and Joner, L.A., "Reduced Amplitude for V959 Ophiuchi", 1999, Information Bulletin of Variable Stars, 4796, 1-4

Roming, P.W.A., Moody, J.W., and **Hintz, E.G.**, "A Long Slit Spectral Analysis of the Nuclear Region of M101", 1999, *Astronomical Journal*, 117, 1733-1742

Hintz, M.L., Joner, M.D. and **Hintz, E.G.**, "Photometric Abundance Determination for delta Scuti Stars Using hk Photometry", 1998, *Astronomical Journal*, 116, 2993-2997

Hintz, E.G., Joner, M.D., and Kim, C., "Photometric Studies of delta Scuti Stars II: V1162 Orionis", 1998, *Publication of the Astronomical Society of the Pacific*, 110, 689-698

Joner, M.D., **Hintz, E.G.**, and Collier, M.W., "Photometric Studies of delta Scuti Stars I: IP Virginis", 1998, *Publication of the Astronomical Society of the Pacific*, 110, 451-457 *

Hintz, E.G., Hintz, M.L., and Joner, M.D., "Time Series Ensemble Photometry of SX Phoenicis Stars II: AE Ursae Majoris", 1998, *Publication of the Astronomical Society of the Pacific*, 109, 1073-1076

Hintz, E.G., Moody, J.W., Joner, M.D., and Taylor, B.J., "Multicolor, Two-dimensional Photometric Study of Galaxies in Rich Abell Clusters I: Observations and Reductions", 1997, *Astronomical Journal*, 114, 1297-1307

Hintz, E.G. and Joner, M.D., "Fourier Decomposition of the Light Curves of Three Dwarf Cepheids: XX Cygni, V798 Cygni, and CY Aquarii", 1997, *Publication of the Astronomical Society of the Pacific*, 109, 639-642

Hintz, E.G., Roming, P.W.A., Moody, J.W., and Miller, K.A., "Reddening Study of a High Galactic Bright Nebula: LBN 434", 1997, *Astronomical Journal*, 113, 1375-1378 *

Hintz, E.G., Joner, M.D., McNamara, D.H., Nelson, K.A., Moody, J.W., and Kim, C., "Time Series Ensemble Photometry of SX Phoenicis Stars I: BL Camelopardalis", 1997, *Publication of the Astronomical Society of the Pacific*, 109, 15-20

Hintz, E.G., "Multicolor Two-dimensional Photometry of Galaxies in Rich Abell Clusters", 1996, *Publication of the Astronomical Society of the Pacific*, 108, 950

Joner, M.D., **Hintz, E.G.**, Stephens, T., Nelson, K.A., Moore, H., and Moody, J.W., "The Search for Stellar Variability in M67: Ensemble Photometry with the Burrell Schmidt Telescope", 1995, *Publications of the Astronomical Society of the Pacific Conference Series*, 84, 380 *

Moody, J.W., **Hintz, E.G.**, and Joner, M.D., "BVRI Photometry of Galaxies in Abell Clusters: Hubble Types from Undersampled Data", 1995, *Publications of the Astronomical Society of the Pacific Conference Series*, 84, 505-510

Moody, J.W., Roming, P.W.A., Joner, M.D., **Hintz, E.G.**, Geisler, D., Durrell, P., Scowan, P.A., and Jee, R.O., "Evidence for Mass Outflow from the Nucleus of M101: Knots, Rings, and a Geyser", 1995, *Astronomical Journal*, 110, 2088-2101

Tweedy, R.W., Balonek, T.J., **Hintz, E.**, Joner, M., and Joner, L., "Supernova 1993J in NGC 3031", 1993, *International Astronomical Union Circular*, 5817, 1 (moderated instead of refereed)

Hintz E.G. and Moody, J.W., "Multicolor Photometry of Galaxies in Abell Clusters", 1993, *Publication of the Astronomical Society of the Pacific Conference Series*, 51, 266

Invited Talks, Invited Webinars, and Invited Posters

Hintz, E., "Cool Companions to Variable Stars with Infrared Spectroscopy", Idaho State University - Physics Department. October 2023.

Hintz, E., “Have a Few Hours to Chase a Variable Star?”, Ford Amateur Astronomy Club (Dearborn, MI, Henry Ford College). September 2023.

Hintz, E., “Building an Array of Robotic Telescopes to Observe Short Period Variable Stars”, The Skyscrapers Lecture Series, Astronomical Society of Rhode Island (The Skyscrapers). February 2023.

Hintz, E., “Using Your Telescope to Observe Short Period Pulsating Variable Stars”, Battle Point Astronomical Association (Bainbridge Island, WA). February 2023.

Hintz, E., “Building an Array of Robotic Telescopes to Observe Short Period Variable Star”, Clyde Tombaugh Lecture Series, Astronomical Society of Las Cruces. October 2022.

Hintz, E., “SPP Section Roundtable at Winter Meeting”, American Association of Variable Star Observers, November 2021. – **Webinar (Host, Organizer, & Presenter) Approximate 150 people from all parts of the world.**

Hintz, E., “Webinar on delta Scuti, beta Cephei, and other very short period variables”, American Association of Variable Star Observers, April 2021. – **Webinar (Host, Organizer, & Presenter)**

Hintz, E., “SPP Section Roundtable at Winter Meeting”, American Association of Variable Star Observers, November 2020. – **Webinar (Host, Organizer, & Presenter) Approximate 150 people from all parts of the world.**

Hintz, E., “Spectrophotometry, Spectropolarimetry and other Advanced Methods to Study Short Period Pulsating Variables”, Utah Valley University Department Colloquium, October 20, 2020. - **Talk**

Hintz, E., “Introduction to the SPP Section of AAVSO”, American Association of Variable Star Observers, August 2020. – **Webinar (Host, Organizer, & Primary Presenter) Approximate 250 people from all parts of the world.**

Hintz, E., “Building an Array of Robotic Telescopes to Observe Short Period Variable Stars”, Salt Lake Astronomical Society, July 2020. - **Talk**

Hintz, E., “Confirmation of Short Period Pulsating Variables Using an Array of Robotic Telescopes”, Joint meeting of The Society of Astronomical Science and American Association of Variable Star Observers, June 20, 2020. - **Talk**

Hintz, E., “Studying Pulsating Variable Stars with Telescopes from 5” to 8-m”, at Idaho State University, November 26, 2018. - **Talk**

Hintz, E., “Calibrated H-Alpha Monitoring of Astrophysically Interesting Objects”, at APS 2014 Four Corners Meeting, at Utah Valley University, October 2014. - **Talk**

Hintz, E., “The Effects of Cadence of Astronomical Time-Series Observations”, at Idaho State University, October 28, 2013- **Talk**

Hintz, E., “Variable Star Research with Dedicated Telescopes and Dedicated Students”, American Association of Physics Teachers Meeting, Ann Arbor, MI, July 30, 2009 - **Talk**

Hintz, E., “High Density Time-Series Observations of Variable Stars”, at Utah State University, March 23, 2009 - **Talk**

Hintz, E., “Variable Star Hunting: Find Them, Tag Them, and Track Them”, at Idaho State University, November 12, 2007 - **Talk**

Hintz, E., “Finding and Monitoring Variable Stars with a Lot of Undergraduate Help”, at Morehouse College and Spelman College, November 8, 2007 - **Talk**

Hintz, E., “Taking Up the Challenge of Involving Undergraduates in Research”, American Association of Physics Teachers Meeting, Greensboro, NC, July 30, 2007 - **Talk**

Hintz, E., “Using Small Telescopes and Undergraduate Students to Find and Monitor Low Amplitude Variable Stars”, at Utah Valley State College, October 5, 2005 - **Talk**

Publication List - Refereed Articles and Meeting Presentations in Astronomy Education Research (AER)

Hintz, M.L. & **Hintz, E.G.**, “Enhancing the Star Party Experience by Including a Digital Telescope”, 2023, American Astronomical Society Education Committee Blog, 27 March 2023

Hintz, E.G., Hintz, M.L., & Lawler, M.J., “Previous Knowledge Base of Constellations and Bright Stars for Non-Science University Students and 9th Graders”, 2015, Journal of Astronomy and Earth Science Education, 2(2), 115-134 (refereed journal)

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Hintz, E.G., Smith, N., Moody, J.W., Stephens, D.C., Jones, M. D., Hintz, M., Lawler, J., Jones, M., & Bench, N., “Learning Curve for Teaching Constellations in a Planetarium”, 2014, American Astronomical Society, 224, 44807

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Liu, M., **Hintz, E.G.**, Jones, M.D., Lawler, M.J., Fisler, A., & Mumford, H.M., “Deaf Education in a Planetarium”, 2013, American Astronomical Society, 221, 14107

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Jones, H., **Hintz, E.G.**, Lawler, M.J., & Davies, R. “Researching Effective Methods for Teaching the Phases of the Moon”, 2011, American Astronomical Society, 217, 24801

Hintz, E.G., & Lawler, M.J. “Hands-on Astronomy for GE Students, TAs, and Astronomy Majors”, 2010, American Association of Physics Teacher, 140, 2010 Summer Meeting, Portland, Oregon

Lawler, M.J., Jones, M., Jones, H., & **Hintz, E.G.**, “Non-Verbal Instruction in Planetariums with Full-Dome Graphics Capability”, 2010, American Association of Physics Teacher, 140, 2010 Summer Meeting, Portland, Oregon

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Hintz, E.G. & Joner, M.D., “The International Year of Astronomy at BYU”, 2008, American Association of Physics Teachers, 136, Summer 2008

Hintz, E.G., Joner, M.D., Moody, J.W., & Stephens, D.C., “Giving All Astronomy Students a Taste of Research”, American Association of Physics Teachers, 136, Summer 2008, Edmonton, Alberta, Canada

Hintz, E.G., Joner, M.D., Moody, J.W., & Stephens, D.C., “Integrated Research in the BYU Astronomy Major”, American Association of Physics Teachers, 136, Summer 2008, Edmonton, Alberta, Canada

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Joner, M.D., Albrechtsen, J., **Hintz, E.G.**, Moody, J.W., Short, C., & Swenson, C., "Using a Robotic Telescope for Undergraduate Astronomy Education", 2007, American Astronomical Society, 210, 8013

Moody, J.W., Joner, M.D., **Hintz, E.G.**, Lawler, J., Bush, T., Moncrieff, K., & Leishman, T., "General Astronomy Education Using The BYU 39' Planetarium", 2007, American Astronomical Society, 210, 8009

Hintz, E.G., “Taking Up the Challenge of Involving Undergraduates in Research”, American Association of Physics Teachers, 134, Summer 2007, Greensboro, North Carolina

Publication List - Refereed Articles and Presentations in Religion and Science

Hintz, E., "A Sky of Signs and Wonders", Presented at the Sacred Stewardship Conference held at BYU in April 2004 - Presentation

Hintz, E., "A Sky of Signs and Wonders", 2005, Borrowed Earth, 8-28 (Refereed Article)

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Graham, D. and **Hintz, E.**, “Anaxagoras' Eclipse”, 2007, Apeiron, Volume XL, 4, 319-344

Graham, D., and **Hintz, E.**, “An Ancient Greek Sighting of Comet Halley?”, 2010, Journal of Cosmology, 9, 2130-2136

Publication List - Articles on Space Flight and Science

Hintz, E., “Lost Explorers of the Final Frontier”, 2003, The Collegiate Post, Brigham Young University, 4, 5-7

Publication List - Conference Proceedings for Astronomy/Astrophysics Research with Majority as Referred Papers

Call, S.G., **Hintz, E.G.**, & Morrell, T.D., "Evidence of CO Destruction in Classical Cepheid, CP Cephei", American Association of Variable Star Observers – 2023 Meeting Proceedings, waiting publication

Hintz, E.G., Call, S.G., & Morrell, T.D., "Finding Cool Companions to Pulsating Variable Stars with Infrared Spectroscopy", American Association of Variable Star Observers – 2023 Meeting Proceedings, waiting publication

Hintz, E., Hansen, J.L., Jensen, J.S., & Banks, E.E., "Confirmation of Short Period Pulsating Variables Using an Array of Robotic Telescopes", 2020, Proceedings of the 39th Annual Symposium of the Society of Astronomical Sciences, June 2020, pg. 149. (refereed) *

Bucklein, B. K., Moody, J. W., **Hintz, E. G.**, "Galaxy Number Counts as a Probe for Voids", 2010, Astronomical Society of Pacific Conference Series, 421, 248. Presented May 2009 in Granada, Spain.

Martin, S., Alonso, R., Rodriguez, E., Ashley, M., Hidas, M., Kim, S.L., Jeon, Y.B., Akan, C., Irwin, M., de Ugarte, A., Bossi, M., Poretti, E., Zerbi, F.M., Suarez, J.C., and **Hintz, E.G.**, "Multisite Campaign Summer 2002: Photometric Observations of The Open Cluster NGC 6633", 2004, Proceedings of the 2nd Eddington Workshop "Stellar Structure and Habitable Planet Finding", Palermo, Italy, April 2003. ESA SP-538, 349-353

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Rodríguez, E., Garcia, J.M., Mkrtychian, D.E., Costa, V., Lopez-Gonzalez, Kusakina, M.J., Kim, S.L., **Hintz, E.**, Gamarova, A.Y., Lee, J.W., Yoon, J.H., "Asteroseismology in Eclipsing Binary Systems Through Multisite Coordinated Campaign: the Case of RZ Cas During the Year 1999", 2002, Proceedings from the Euro-Asian Astronomy Society 6th General Meeting, Moscow, May 2002

Hintz, E.G., Schwendiman, L.R., and Joner, M.D., "Targeting Mono-Periodic High-Amplitude delta Scuti Variables with the MOST Telescope", 2000, published on the MOST website

Joner, M.D. and **Hintz, E.G.**, "Interactive Online Archive for Short Period Variables", 1998, Proc. of SPIE, 3349, 325

Hintz, E.G., Moody, J.W., Joner, M.D., Rice, M., and Nelson, K.A., "Large Scale Structure with a Small Telescope", Published on NOAO Web Site

Wells, L.A., Balonek, T.J., Tweedy, R., **Hintz, E.G.**, Joner, M.D., Porter, A.C., Neely, W., Tremonti, C.A., Kock, J.L., Silvestri, N., Roming, P.W.A., Nelson, K.A., Kwitter, K.B., "The Early Light of SN 1993J", 1994, Proceedings of International Astronomical Union Colloquium #145

Publication List – Meeting Abstracts

A green * indicates an undergraduate co-author. In most cases this is the first author on the presentation.

Morrell, T., Call, S., & **Hintz, E.G.**, "IR Spectral Observations over the Pulsation Curve of Variable Stars", 2023, American Astronomical Society, 242, 33705 *

Hintz, E.G., Call, S., & Morrell, T., "IR Spectroscopy of Stars Over Different Instability Strips", 2023, American Astronomical Society, 242, 33704 *

Miller, J. & **Hintz, E.G.**, "Monitoring Bright Pulsating Variable Stars with a 6-inch Telescope", 2023, American Astronomical Society, 242, 33701 *

Morrell, T., Call, S., & **Hintz, E.G.**, "IR Spectral Observations of Pulsating Stars in Binary Systems", 2023, American Astronomical Society, 241, 30316 *

Myckowiak, M. & **Hintz, E.G.**, “Follow-up Observations of Faint Short Period Variable Stars”, 2023, American Astronomical Society, 241, 30315 *

Zaugg, C., & **Hintz, E.G.**, “Time Series Analysis of 6 New Suspected Pulsating Variable Stars”, 2023, American Astronomical Society, 241, 30314 *

Clement, K., & **Hintz, E.G.**, “Classification Check and Establishing Baselines for 3 Suspected Multi-Periodic Stars”, 2023, American Astronomical Society, 241, 30313 *

Hintz, E.G., Hintz, M.L., Call, S.G. & Morrell, T., “Photometric Observations of 3 Binary Systems with a Pulsating Component”, 2023, American Astronomical Society, 241, 30312 *

Banks, E., **Hintz, E.G.**, & Hintz, M.L., “Recent Photometric and Spectroscopic Observations of the High-Amplitude delta Scuti V2455 Cygni 2023”, American Astronomical Society, 241, 30309 *

Call, S.G., & **Hintz, E.G.**, “NIR spectral analyses of delta Scuti stars”, 2023, American Astronomical Society, 241, 30306

Stephens, D., **Hintz, E.G.**, & Shelton, J. & Hansen, J., “Observing Exoplanet Transits with Robotic Telescopes to introduce Undergraduate Students to Observations and Data Reduction”, American Astronomical, 241, 17103 *

Hintz, E.G., Lawler, M.J., Hintz, M.L., & Boizelle, B., “Impact of Digital Telescopes on Time Spent at Class Observing Sessions and Public Star Parties”, 2023, American Astronomical Society, 241, 16109

Call, S., **Hintz, E.G.**, & Hansen, J. “Near-infrared spectroscopy of delta Scuti stars”, 2022, American Astronomical Society, 240, 20419

Hansen, J., **Hintz, E.G.**, & Call, S. “Examining Variability of Spectral Features of the delta Scuti star BE Lyn in the Optical and Near-Infrared”, 2022, American Astronomical Society, 240, 20418

Myckowiak, M., & **Hintz, E.G.**, “Follow-up Observations of Faint Short Period Variable Stars”, 2022, American Astronomical Society, 240, 20417 *

Hintz, E.G., Hansen, J.E., & Stephens, D.C., “Monitoring a Newly Discovered delta Scuti Variable from the ATLAS Survey”, 2022, American Astronomical Society, 240, 20405

Banks, E.E., **Hintz, E.G.**, & Hintz, M.L. “A New Examination of the High-Amplitude delta Scuti V2455 Cygni”, 2022, American Astronomical Society, 240, 20404 *

Stephens, D.C., **Hintz, E.G.**, Hansen, J.E., Campbell, E., & Shelton, J. “Using the ARCSAT telescope to follow-up TESS Transiting Planet Candidates”, 2022, American Astronomical Society, 240, 40308 *

Hintz, E.G., Stephens, D.C., Hansen, J.E., Banks, E., Harding, T., & Myckowiak, M., “Robotic Telescopes to Train Physics Teaching Majors”, 2022, American Astronomical Society, 240, 24211 *

Shelton, J., Stephens, D.C., & **Hintz, E.G.**, “Using small robotic telescopes to verify TESS exoplanet candidates”, 2022, American Astronomical Society, 240, 40307 *

11 Meeting Abstracts were submitted for the Winter 2022 AAS meeting in Salt Lake City. The meeting was cancelled, but 10 of these abstracts were for student presentations. *

Davidson, J., & **Hintz, E.G.**, “An Examination of the delta Scuti Variable GW Draconis from 20 year of Data”, 2021, American Astronomical Society, 237, 52804*

Zappala, E.M., & **Hintz, E.G.**, “Confirmation of a Faint Sample of Short Period Pulsating Variables from the ATLAS Survey”, 2021, American Astronomical Society, 237, 52803*

Hansen, J., & **Hintz, E.G.**, “An Examination of Pulsation Periods of High Amplitude delta Scuti Stars with TESS and Kepler”, 2021, American Astronomical Society, 237, 34311*

Hintz, E.G., “Monitoring Period and Phase Changes in X Cygni”, 2021, American Astronomical Society, 237, 34309

Bigheti, M., & **Hintz, E.G.**, “Understanding the Misconception of Professional Astronomy by Middle and High School Students”, 2021, American Astronomical Society, 237, 32304*

Jensen, J.S., **Hintz, E.G.**, & Joner, M.D., “Standardized H-alpha Observations of Open Star Clusters H&Chi Persei and NGC 752”, 2021, American Astronomical Society, 237, 15011*

Hintz, E.G., Hansen, J.L., Jensen, J.S., & Banks, E.E., “Confirmation of Short Period Pulsating Variables Using an Array of Robotic Telescopes”, 2020, Journal of the American Astronomical Society, 48, 264*

Hansen, J., & **Hintz, E.G.**, “Examining Short Period Variable Stars with Exoplanet Surveys”, 2020, American Astronomical Society, 236, 13203*

Hintz, E.G., Hansen, J.L., Jensen, J.S., & Banks, E.E., “Confirmation of Short Period Pulsating Variables Using an Array of Robotic Telescopes”, 2020, American Astronomical Society, 236, 13202*

Jensen, J.S., & **Hintz, E.G.**, “Open Star Cluster Comparison in the H-alpha color Index”, 2020, American Astronomical Society, 235, 20406*

Hansen, J.L., Liechty, S.F., & **Hintz, E.G.**, “Identifying and Understanding Short Period Variables Using All Sky Survey”, 2020, American Astronomical Society, 235, 10608*

Hintz, E.G., Joner, M.D., Bighetti, M.L., Jensen, J.S., Hansen, J.L., Banks, E.E., Liechty, S.F., Epps, K.A., Wilson, E., Apolonio, G.G., & Warden, N., “Confirmation of Short Period Pulsating Variables Discovered by the ATLAS Survey – The Faint End”, 2020, American Astronomical Society, 235, 10604*

Hintz, E.G., & Joner, M.D., “The Impact of Luminosity Class on the H-alpha Index”, 2019, American Astronomical Society, 233, 36408

Trump, J.B., **Hintz, E.G.**, & Joner, M.D., “An Analysis of the delta Scuti Variable V402 Cephei”, 2019, American Astronomical Society, 233, 36011*

Nelson, A.T., **Hintz, E.G.**, Joner, M.D., & Maxwell, A.A., “Time Series Observations of the delta Scuti Variable GW Draconis”, 2019, American Astronomical Society, 233, 36009*

Bugg, A.G., **Hintz, E.G.**, & Joner, M.D., “Monitoring Pulsating Variable Stars with Five Robotic Telescopes”, 2019, American Astronomical Society, 233, 36007*

Steele, J., Stephens, D.C., **Hintz, E.G.**, Moody, J.W., Ragozzine, D., & Hintz, M.L., “Connecting Classroom and Sky: Helping Students Observe the Sky in Ways that are Meaningful, Modern, and Scientific”, 2019, American Astronomical Society, 233, 25701*

Jensen, J., **Hintz, E.G.**, & Joner, M.D., “H-alpha Index Observations of Open Clusters”, 2019, American Astronomical Society, 233, 25004*

Joner, M.D., **Hintz, E.G.**, & Stephens, D.C., “Observations of Transiting Exoplanet Candidates Using BYU Facilities”, 2018, Journal of the American Association of Variable Star Observers, 46, 87

Hernandez, A., **Hintz, E.G.**, & Joner, M.D., “An Examination of H and Chi Persei using the H-alpha and H-beta Lines”, 2018, American Astronomical Society, 231, 34806*

Clarke, S., **Hintz, E.G.**, & Joner, M.D., “H-alpha Variability in the Young Open Cluster Cygnus OB2”, 2018, American Astronomical Society, 231, 34805*

Blackwell, A.E., **Hintz, E.G.**, & Joner, M.D., “Monitoring the H-alpha Emission Line for Cygnus X-1 and X Persei”, 2018, American Astronomical Society, 231, 24421*

Bugg, A.G., **Hintz, E.G.**, & Joner, M.D., “Monitoring Cepheid Variables using the new BYU Observation Deck Robotic Telescopes”, 2018, American Astronomical Society, 231, 14612*

Hintz, E. G., Hintz, M.L., & Joner, M.D., “An Examination of the High Amplitude delta Scuti V2455 Cygni”, 2018, American Astronomical Society, 231, 14605

Stephens, D.C., Joner, M.D., & **Hintz, E.G.**, Martin, T., & Spencer, A., “Follow-Up Photometry of Kelt Transiting Planet Candidates”, 2017, American Astronomical Society DPS, 449, 41611

Hintz, E. G., Joner, M.D., & Barnes, J., “H-alpha/H-beta Light Curves for Pulsating Variable Stars”, 2017, American Astronomical Society, 230, 21706

Clarke, S., **Hintz, E.G.**, & Joner, M.D., “H-alpha Monitoring of the Star Field around Cygnus OB2”, 2017, American Astronomical Society, 229, 34310

Joner, M.D., Saylor, C.A., Hintz, M.L., & **Hintz, E.G.**, “H-alpha and H-beta Standard Stars in M67 and NGC 752”, 2017, American Astronomical Society, 229, 34309*

Rivest, L.J., et al. (**Hintz, E.G.** 5th author), “Periodic Variability of MRK501 in Optical Light”, 2017, American Astronomical Society, 229, 25032*

Moody, J.W., **Hintz, E.G.**, Roming P., Joner, M.D., & Bucklein, B. “Point and Condensed H-alpha Sources in the Interior of M33”, 2017, American Astronomical Society, 229, 23705

Hintz, E. G., & Joner, M.D., “Extension of H-alpha/H-beta Photometry to Additional Luminosity Classes and Emission Line Objects”, 2017, American Astronomical Society, 229, 15415

Hintz, E.G., Joner, M.D., Hintz, M.L., & Mannard, M., “An Analysis of the High Amplitude delta Scuti V2455 Cygni”, 2016, American Astronomical Society, 228, 21803*

Lunsford, L.T., Joner, M.D., & **Hintz, E.G.**, “Time Series Photometry of the Variable Stars AN Lyn and UU Lyn”, 2016, American Astronomical Society, 227, 14406*

Mannard, M., **Hintz, E.G.**, & Joner, M.D., “Photometric and Spectroscopic Analysis of the delta Scuti Variable V2455 Cygni”, 2016, American Astronomical Society, 227, 14408*

Hintz, E. G., & Joner, M.D., “Calibration of H-alpha/H-beta Indexes for Emission Line Objects”, 2016, American Astronomical Society, 227, 34417

Joner, M.D., & **Hintz, E. G.**, “The Lyncis Two for One Special”, 2015, Journal of the American Association of Variable Star Observers, 43, 259

Joner, M.D., & **Hintz, E. G.**, “Standard Stars for the BYU H-alpha Photometric System”, 2015, Journal of the American Association of Variable Star Observers, 43, 257

Mulherin, O., & **Hintz, E.G.**, “Period Change in the Near-Contact Binary UU Lyncis”, 2015, American Astronomical Society, 225, 34506*

Pierce, A., & **Hintz, E.G.**, “A Search for Variable Stars in Open Cluster NGC 7654”, 2015, American Astronomical Society, 225, 34324 (Student received an Honorable Mention for the Undergraduate Chambliss Award)*

Hintz, E. G., and Joner, M.D., “H-alpha Tracking in the Clusters NGC 659, NGC 663, and Cygnus OB-2”, 2015, American Astronomical Society, 225, 34323

Hunter, R, & **Hintz, E.G.**, “Radial Velocity Time Corrections and their Effect on Variable Star Periods”, 2015, American Astronomical Society, 225, 34304*

Hintz, E. G., and Joner, M.D., “Hydrogen Alpha Temperature Curves for 8 Classical Cepheids”, 2014, American Astronomical Society, 224, 15619

Hernandez, A., **Hintz, E.G.** and Joner, M.D., “H-alpha/H-beta Index Measurements for Stars in Open Clusters”, 2013, American Astronomical Society, 222, 11707*

Pierce, A., and **Hintz, E.G.**, “A Search for Variable Stars in Open Clusters: NGC 7654 and More”, 2013, American Astronomical Society, 222, 11705*

Hintz, E.G. and Joner, M.D., “A Calibrated H-alpha Index to Monitor Emission Line Objects”, 2013, American Astronomical Society, 222, 11510

Joner, M.D. and **Hintz, E.G.**, “Standard Stars for the BYU α Photometric System”, 2013, American Astronomical Society, 222, 25211

Hintz, E.G. and Joner, M.D., “Finding an Emission Line Signature in the H-alpha/H-beta Plane for High Mass X-ray Binaries”, 2013, American Astronomical Society, 221, 14231

Hernandez, A., **Hintz, E.G.**, and Joner, M.D., “Looking for Emission Line Objects with X-ray Signatures in the Fields of NGC 884 and NGC 869”, 2013, American Astronomical Society, 221, 14232*

Joner, M.D. and **Hintz E.G.**, “H Standard Stars for the BYU α Photometric System”, 2013, American Astronomical Society, 221, 25211

Joner, M.D. and **Hintz E.G.**, “H-alpha and H-beta Photometry of Selected Open Clusters”, 2012, American Astronomical Society, 220, 43802

Hintz, E.G. and Joner, M.D., “H-alpha/H-beta and Optical Monitoring of High Mass X-ray Binary Systems”, 2012, American Astronomical Society, 220, 32902

Zurita, N. and **Hintz, E.G.**, “Optical Monitoring and Period Analysis of High Mass X-Ray Binary System BD+53 2262”, 2012, American Astronomical Society, 220, 52305*

Joner, M.D. and **Hintz E.G.**, “An Emission Line Survey for Fields Around High Mass X-Ray Binaries”, 2012, American Astronomical Society, 219, 15304

Jorgenson, K., **Hintz, E.G.**, and Joner, M.D., “The Calculation of H-beta Indices for delta Scuti Variable Stars”, 2011, American Astronomical Society, 217, 34215*

Joner, M.D., **Hintz, E.G.**, Laney, C.D., and Moody, J.W., “A Summary of the First Year of Observations from the West Mountain Observatory 0.9-meter Telescope”, 2011, American Astronomical Society, 217, 15713

Zurita, N., **Hintz, E.G.**, Salway, E., and Porritt, C.R., “Optical Monitoring Of Three High Mass X-ray Binary Systems: BD+53 2262, RX J2030.5+4751, And BD+49 3718”, 2011, American Astronomical Society, 217, 14413*

Payan, J.C., **Hintz, E.G.**, and Joner, M.D. “Optical Monitoring Of Two High Mass X-ray Binary Systems: 4u 1907+09 And Ks 1947+300”, 2011, American Astronomical Society, 217, 14412*

Bugno, J.L., **Hintz, E.G.**, Joner, M.D., and Laney, C.D. “Time-series, Multi-wavelength Monitoring Of The High Mass X-ray Binary 4U 2206+54”, 2011, American Astronomical Society, 217, 14411

Hintz, E.G. and Joner, M.D., “Standardization of Comparison Stars in the Fields of 10 High Mass X-ray Binaries”, 2011, American Astronomical Society, 217, 14409

Jorgenson, K., **Hintz, E.**, and Shreeve, D.K., "The Calculation of H β Color Indices for δ Scuti Variable Stars", 2010, American Physical Society, 4 Corners Meeting*

Bush, T.C., **Hintz, E.G.**, Shreeve, D.K., and Jorgenson, K., "Determining H β Color Indices for 23 δ Scuti Variable Stars", 2010, American Astronomical Society, 215, 60619

West, M., **Hintz, E.G.**, and Joner, M.D., "Comparison of H α and H β Temperature Indices in the Hyades and Coma Star Clusters", 2010, American Astronomical Society, 215, 45531

Bugno, J., **Hintz, E.G.**, Joner, M.D., Laney, C.D., and Migenes, V., "Optical Observations of the High Mass X-ray Binary 4U 2206+54", 2010, American Astronomical Society, 215, 41908

Schoonmaker, J.N., Hintz, E.G., and Joner, M.D., "Photometric and Spectroscopic Time-Series of Three delta Scuti Variables", 2010, American Astronomical Society, 215, 42719*

Hintz, E.G., Schoonmaker, J.N., Jibson, D.C., Smith, H.A., Sanders, N., Giddings, R., "An Examination of the Binary Nature of the delta Scuti Variable AN Lyncis", 2010, American Astronomical Society, 215, 42718*

Bucklein, B., Moody, J. W., **Hintz, E. G.**, "Galaxy Number Counts Applied to a Semi-Analytic Galaxy Model in the Millennium Run Simulation", 2010, American Astronomical Society, 215, 40904

Hintz, E.G., Joner, M.D., and Moody, J.W., "Observing Opportunities Using the BYU West Mountain Observatory 0.9-m Telescope", 2009, American Astronomical Society, 213, 47404

Hintz, E.G., Moody, J.W., Joner, M.D., and Stephens, D.C., "Integrating Research into the BYU Undergraduate Astronomy Major and Descriptive Astronomy Classes", American Astronomical Society, 213, 46104

West, M., **Hintz, E.G.**, and Joner, M.D., "Comparison of H-alpha and H-beta Temperature Indices in the Hyades and Coma Star Clusters", 2009, American Astronomical Society, 213, 44224

Bugno, J., **Hintz, E.G.**, and Joner, M.D., "Time Series Photometry of the High Mass X-ray Binary LPH 128 and the delta Scuti Star GSC 03973-01698", 2009, American Astronomical Society, 213, 43304*

Bush, T.C., and **Hintz, E.G.**, "Rotational Velocity Determinations for 118 delta Scuti Variables", 2009, American Astronomical Society, 213, 43303 (Student won Graduate Student Chambliss Award)

Schoonmaker, J., and **Hintz, E.G.**, "An Analysis of the delta Scuti Variable V873 Herculis", 2009, American Astronomical Society, 213, 43301*

Moncrieff, K.E., and **Hintz, E.G.**, "Development of a New Ca II H and K Spectrophotometric Index", 2007, American Astronomical Society, 210, 7401

Schuff, S., **Hintz, E.G.**, and Joner, M.D., "A Search for Variable Stars in the Field of NGC 7092 (M39)", 2006, American Astronomical Society, 209, 16514*

Bush, T.C. and **Hintz, E.G.**, "Rotational Velocities of delta Scuti Variable Stars", 2006, American Astronomical Society, 209, 2919

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