Peter Plavchan

Assistant Professor of Astronomy
Associate Director, George Mason Observatory
PI, EarthFinder NASA Mission Concept Study
PI, Astrophysics of Exoplanets Instrumentation Lab
Co-PI, MINERVA-Australis

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Education

University of California, Los Angeles, Los Angeles, CA MS, PhD in Physics	2001-2006
California Institute of Technology, Pasadena, CA BS in Physics, with honor	1996-2001

Awards & Honors

College of Science Excellence in Mentoring award nomination	2019
College of Natural and Applied Sciences Research Award, MSU	2017
NASA Group Achievement Award *Citation: For the development and tests at Mauna Kea observatories of a near-infrared Laser Frequency Comb as a wavelength standard for the detection and characterization of exoplanets.*	2017
NASA Honor Achievement Award, NASA Exoplanet Archive Team Citation: *For outstanding achievement in the rapid and on-budget launch of the NASA Exoplanet Archive*	2014
NASA Honor Achievement Award, Spitzer Science In-Reach Team Citation: *For outstanding support of Spitzer IRAC Warm Instrument Characterization and significant contributions to NASA and JPL commitments to education of the global community.*	2010
UCLA Physics Division Fellowship	2001-2006
Kobe International School of Planetary Sciences Fellowship	2005
Astronomy Department Outstanding Teaching Award	2002-2003
IBM Watson Fellowship	1996-2000

Employment History

Assistant Professor, George Mason University, Fairfax, VA	2017-current
Assistant Professor, Missouri State University, Springfield, MO	2014-2017
Visiting Professor, University of Pennsylvania, Philadelphia, PA	2014-2017
Assistant Research Scientist, NASA Exoplanet Science Institute, Caltech	2014
Adjunct Professor, Cerritos College, Los Angeles, CA	2014
Assistant Staff Scientist, NASA Exoplanet Science Institute, Caltech, Pasadena	2008-2014
Visiting Professor, University of California, Los Angeles, CA	2010
Post-Doctoral Scholar, Caltech, Pasadena, CA	2006-2008
Doctoral Research, University of California, Los Angeles	2004-2006
Thesis Title: "M Dwarf Planetary Systems"	
Thesis Advisor: Professor Michael Jura (deceased)	
Adjunct Professor, University of Judaism (now American Jewish U), CA	2004-2006
Graduate Research, University of California, Los Angeles	2001-2004
Volunteer Teacher Team Leader, Crossing the Digital Divide, Los Angeles,CA	2003-2004
Teaching Associate, University of California, Los Angeles	2002-2003
Teaching Assistant, University of California, Los Angeles	2001-2002
Academic Part-Time Employee, Jet Propulsion Laboratory, Pasadena, CA	1999-2001
Undergraduate Teaching Assistant, Caltech, Pasadena, CA	2001
Summer Undergraduate Research Fellow, Caltech, Pasadena, CA	1997,1999

Professional Membership

Sigma Xi	2016-current
American Astronomical Society	2003-current
American Association for the Advancement of Science	2011-current
International Astronomical Union	2003-present
American Chemical Society	2011-2016

Press & Outreach

Mason College of Science Transfer Student Welcome Events 2018-current
Astronomy Festival on the National Mall, organized by Hofstra University 2018-current
WFIRST Congressional Advocacy Day, Capitol Hill 2018-2019
SPACEREF news coverage 2019
"The Revised TESS Input Catalog and Candidate Target List"
http://www.spaceref.com/news/viewsr.html?pid=52529
Astrobiology Web 2019
"Ground-based Radial Velocity as Critical Support for Future NASA Earth-Finding Missions"
http://astrobiology.com/2019/03/ground-based-radial-velocity-as-critical-support-for-future-nasa-earth-finding-missions.html
"Towards Finding Earth 2.0: Masses and Orbits of Small Planets with Extreme Radial Velocity Precision"
http://astrobiology.com/2019/03/toward-finding-earth-20-masses-and-orbits-of-small-planets-with-extreme-radial-velocity-precision.html
Skype call with 2nd graders, 2019/02/04 2019
JPL NASA Press Release, "Taking the astronomical road less traveled," 2018
https://exoplanets.nasa.gov/news/1510/taking-the-astronomical-road-less-traveled/
NOVA Community College Transfer Student event, 2018/11/13 2018
Book reading with childcare center 2018
NASA Press Release 2017
"NASA Selects Medium-scale Space Mission Concepts to Study for 2020 Astrophysics Decadal Survey"
https://exoplanets.nasa.gov/news/1425/nasa-selects-medium-scale-space-mission-concepts-to-study-for-2020-astrophysics-decadal-survey/
MSU Press Release: "The age-old question: Are there other Earths?" 2017
https://news.missouristate.edu/2017/03/23/age-old-question-earths/
The Standard, MSU Newspaper 2017
"Spotlight Series: MSU team funded by NASA, researching exoplanets"
http://www.the-standard.org/life/spotlight-series-msu-team-funded-by-nasa-researching-exoplanets/article_259a90d0-2ee5-11e7-b4f7-33f2608de1f8.html
Missouri State University Solar Eclipse Event 2017
Springfield Public Library Solar Eclipse Event 2017
Skype call with elementary school children about Solar Eclipse 2017
Debunking claims of alien civilization detections, various 2017
http://fivethirtyeight.com/features/is-that-an-alien-signal-please-answer-on-a-scale-of-1-to-10/
OTC "Middle College" final class project presentation evaluator 2016-2017
Astronomy Journal Club, MSU 2016-2017
KSMU NPR Radio, STEM Spots 2016-2017
http://ksmu.org/post/eclipse-it-doesnt-block-our-love-science
http://ksmu.org/post/trappist-1-system-now-it-getting-close-home
http://ksmu.org/post/how-microvae-helped-find-new-galaxies
http://ksmu.org/post/planets-formed-dust-gas-and-some-luck
KOLR 10 News Lead Story on "Snow Moon" 2017
https://twitter.com/PlavchanPeter/status/830268723130990593
Ferguson High School Physics Class MSU Recruiting Talk, 2016/10/06 2016
JPL NASA Press Release, "Light echoes give clues to young star's protoplanetary disc" 2016
"Surely You're Joking" science comedy podcast 2016
"Prof. Peter Plavchan, Richard Chassler and the ensemble of alien mega-structures,"
https://soundcloud.com/surely-youre-joking/peter-plavchan
KSMU NPR Radio, STEM Spots 2016
"Planets: Formed From Dust, Gas, and Some Luck,"
http://ksmu.org/post/planets-formed-dust-gas-and-some-luck
Carnegie Science Press Release 2016
"*New Tool Refines Exoplanet Search"*

Caltech, Keck Observatory Press Release (covered in Pasadena NOW) 2016
"*Novel Calibration Tool Will Help Astronomers Look for Habitable Exoplanets"*
Springfield News Leader Newspaper article 2015
"MSU student working to solve costly problem in astronomy"
KSMU NPR Radio, STEM Spots 2015
"MSU Professor Explores The Heavens to Find the Next Earth,"
http://ksmu.org/post/msu-professor-explores-heavens-find-next-earth
MSU Press Release, "Astronomy professor studies Earth-like planets," 2015
Featured in Science Magazine news as "Closest Exoplanet is Remarkably Earth-Sized"
https://news.missouristate.edu/2015/03/23/professoreyesearthlikeplanet/
The Standard, MSU Newspaper, "Twinkle twinkle, little star" 2015
JPL NASA Press Release, "Spitzer Discovers Young Stars with a Hula-Hoop" 2013
JPL NASA Press Release, "Stars Don't Obliterate Their Planets (Very Often)" 2013
AAS, UCLA Press Release, "The Case of the Missing Disks" 2005

External Grants

Principal Investigator or Science Lead:		
Sci-STEPS Summer Student Fellowship	2019	$5k
Mt Cuba Astronomical Foundation Grant	2018	$100k
NSF Astronomy and Astrophysics Grant	2017	$363k
NASA EarthFinder Probe Mission Study Grant	2017	$128k
NASA ExEP Research Contract	2017	$106k
AAS International Travel Grant	2016	$1.2k
NASA EPSCoR Research Infrastructure Development	2015	$38k
JPL Research Contract	2015	$5k
JPL Research and Technology Development	2013	$200k
JPL Research and Technology Development	2012	$190k
JPL Center for Exoplanet Science	2011	$15k
JPL Center for Exoplanet Science	2010	$6k
JPL Center for Exoplanet Science	2009	$14k
Spitzer Space Telescope, GO-6	2009	$35k
Spitzer Space Telescope, GO-5	2008	$46k
Co-Investigator: (significant funded role):		
Spitzer Space Telescope, GO-8	2011	$15k
Spitzer Space Telescope GO-6 Exploration Science	2009	$600k
SIM Science Study	2009	$75k
Spitzer Space Telescope, GO-4	2007	$5k

Total at George Mason in two years: $0.70M
Total in rank of assistant professor in five years: $0.75M
Total: $1.95M

Internal Grants

Principal Investigator or Science Lead:		
GMU Observatory Operating Budget	2019	$16k
GMU OSCAR USRP Summer Intensive	2019	$5k
GMU OSCAR USRP Summer Intensive	2018	$10k
GMU Department Student Travel Fund	2018	$2k
GMU COS Research Instructional Equipment Grant	2017	$150k
George Mason Startup Funds	2017	$125k
Missouri State University Graduate College Research	2014	$7.5k
Missouri State University Startup Funds	2014	$75k

Accepted Observing Proposals

Principal Investigator/Technical Contact:

Many nights, IRTF iSHELL near-infrared absorption gas cell instrument	2016-current
24 hours, Spitzer Space Telescope Director's Discretionary Time	2019
24 hours, Spitzer Space Telescope Director's Discretionary Time	2019
76 nights, IRTF CSHELL near-infrared absorption gas cell instrument	2014-2016
2 nights, Palomar AO imaging	2012-2013
23 nights, IRTF CSHELL near-infrared absorption gas cell instrument	2010-2012
10 nights, SMARTS Andicam	2009-2011
51 hours, Spitzer Space Telescope, IRAC, MIPS & IRS	GTO-4,5,GO-5,6
2.5 nights, Keck Observatory, 10m Keck II, Nirspec Spectrograph	2006-2008
32 nights, Lick Observatory, 3.0m Shane, KAST + Hamilton Spectrographs	2004-2006
18 nights, Lick Observatory, 1.0m Nickel, CCD imaging	2004

Co-Investigator: (significant role):

29 orbits, Hubble Space Telescope, Cycle 27	2019
2672 hours, Spitzer Space Telescope, warm IRAC imaging, and multiple ground-based supporting observations	2009-2013
2 nights, Keck Observatory	2009A,2012B

Graduate Students (16) and Postdocs (1)

Will be forming thesis committee as advisor – **4 bold**; Thesis committee – **3 blue**

Bryson Cale	Graduate	MSU→GMU	2016-current
Patrick Newman	Graduate	MSU→GMU	2016-current
Mohammed El Mufti	Graduate	GMU	2018-current
Justin Wittrock	Graduate	GMU	2018-current
David Vermilion	Graduate	GMU	2018-current
Shannon Dulz	Graduate	Notre Dame	2018-current
Kevin Collins	Graduate	GMU	2019-current
Sheldon Takeall	Graduate	GMU	2019-current
Brianna Galgano	Masters Bridge	Vanderbilt	2019-current
Dax Feliz	Masters Bridge	Vanderbilt	2018-current
Elise Furlan	Postdoctoral Scholar	NExScI/Caltech	2014
→ *Caltech/IPAC Research Associate*			
Jonathan Gagne	Visiting graduate student	NExScI/U.Montreal	2014-2015
→ *NASA Sagan Prize Postdoctoral Fellow*			
Michael Bottom	Graduate student	Caltech	2012-2013
→ *JPL Research Scientist*			
Peter Gao	Graduate student	Caltech	2011-2015
→ *NASA Ames Prize Postdoctoral Fellow* → *51 Peg b Fellow @ UC Berkeley*			
Huan Meng	Visiting graduate student	NExScI/U.Arizona	2013
→ *University of Arizona postdoctoral scholar*			
Tina Gueth	Research Assistant	Caltech	2010
→ *New Mexico Tech graduate student in physics*			
J. Rob Parks	Visiting graduate student	NExScI/Georgia State	2009-2010
→ *Georgia State postdoctoral scholar*			

Post-bac (3), Undergraduate (35), High School (10), and Middle School Students (2)

Shawn Foster	Post-Bac		2018-current
Natasha Latouf	Undergraduate	GMU	2017-current
Carl Tchatchouang	Undergraduate	GMU	2017-current
Mary Jimenez	Undergraduate	GMU	2018-current
Nick Pepin	Undergraduate	GMU	2018-current
Caitlin Stibbard	Undergraduate	GMU	2019-current
Vedhas Banaji	High School	VA	2019-current
John Berbarian	High School	VA	2019-current
Anoushka Chintada	High School	ASSIP	2019-current
Sherrie Feng	High School	ASSIP	2019-current
Shreyas Banaji	Middle School	VA	2019-current
Sophia Economon	Undergraduate	Florida Tech/ASSIP	2019
Srihan Kotnana	Middle School	ASSIP-YR	2019
Saptarshi Biswas	High School	VA	2019
Kennedy Jeter	High School	ASSIP/STEMShip	2019
Krupa Natarajan	High School	VA	2019

Bahaa Hamze	Post-Bac, Observatory Asst.	GMU	2018-2019
Jocelyn Quispe	Post-Bac	GMU	2018-2019
Ben Tieu	Undergraduate	GMU	2018-2019
William Matzko	Undergraduate	GMU	2018-2019
→ *George Mason PhD student in astronomy*			
David Rea	Undergraduate	GMU	2017-2019
→ *Iowa State PhD student in astronomy*			
Bahaa Hamze	Undergraduate	GMU	2017-2018
→ *GMU Observatory Assistant*			
Daniel LeBrun	Undergraduate	GMU	2017-2018
→ *Lockheed Martin detector development*			
Heena Chotani	Undergraduate	GMU	2018
Monica Vidaurri	Undergraduate	GMU	2018
Scott Webster	Undergraduate	GMU	2018
Matthew Cheung	High School	STEMShip	2018
Zach Nofal	High School	VA	2018
Shannon Dulz	Undergraduate	MSU	2016-2017
→ *Notre Dame PhD student in astronomy*			
America Nishimoto	Undergraduate	MSU	2016-2017
Chris Klenke	Undergraduate	MSU	2016-2017
Frank Giddens	Undergraduate	MSU	2016-2017
Andrew Cancino	Undergraduate	MSU	2016-2017
Joseph Huber	Undergraduate	MSU	2015-2017
Ryan Hall	Undergraduate	MSU	2015-2017
→ *Georgia State PhD student in astronomy*			
Perri Zilberman	High School	JFK, NY	2015-2017
→ *Boston University undergraduate*			
Claire Geneser	Undergraduate	MSU	2014-2016
→ *Mississippi State PhD student in astronomy*			
Denise Weigand	Undergraduate	Central Methodist U	2016
Krishan Nelson	Undergraduate	MSU	2016
Joe Regan	Undergraduate	MSU	2015
Andrew Stufflebeam	Undergraduate	MSU	2014-2015
→ *Network management for 600-person brewery*			
Garrett Pohl	Undergraduate	MSU	2014
Nick Ogden	Undergraduate	MSU	2014
Chris Bilinski	Undergraduate	Caltech	2010-2011
→ *U. Arizona Graduate School in astronomy*			
Sean Mills	Undergraduate	Caltech	2010-2012
→ *U. Chicago Graduate School in astronomy* → *Caltech Postdoctoral Scholar*			
Nadanai Laohakunakorn	Visiting undergraduate	Caltech/UK	2009
→ *University College London Graduate School in Applied Physics*			
Giri Gopalan	Undergraduate	Caltech	2009
→ *Harvard Graduate School in Statistics* → *Iceland Graduate School in Climate Science*			
Alan Gee	Undergraduate	Caltech	2007
→ *MIT Lincoln Labs*			
Lisbeth Jensen	Undergraduate	UCLA	2005
→ *Cal State Northridge Masters in Astronomy*			
Patricia Wells	Undergraduate	UCLA	2005

Local Service

GMU University Bike Advisory committee	2019-current
SPS Society Faculty Contact for GMU Chapter	2017-current
Friends of the Observatory Student Club Faculty Advisor	2017-current
GMU Department Recruiting & Retention Committee Chair	2017-current
GMU-NOVA Community College Physics Faculty Get-together Coordinator	2018-current
GMU University OSCAR USRP (Undergraduate Research) Committee	2018-current
Weekly Department Coffee organizer	2018-current
College of Science creator of STEM Transfer Student Welcome events	2018-current
GMU LOC member for "Apollo 11 to New Horizons" conference	2019
GMU Physics & Astronomy Department Seminar organizer	2018-2019
MSU "Young Guns" Website Committee	2015-2017
MSU Coordinator, 2017 Solar Eclipse Event	2017
MSU Masters in Natural and Applied Sciences, Astronomy Focus creator	2015-2017
Faculty Mentoring Certificate of Appreciation	2016

National Service

NASA Exoplanet Science Strategy: Extreme Precise Radial Velocity Initiative Steering Group https://exoplanets.nasa.gov/exep/NNExplore/EPRV/	2019-current
NSF Graduate Research Fellowship Program Panel	2018
Executive Committee, NASA Exoplanet Exploration Program Analysis Group	2012-2016
NSF Astronomy and Astrophysics Review Panel	2013,2016,2018
Subaru Telescope Key Project Review	2018
NSF NNEXPLORE Review	2017
NSF MRI Review	2017
NASA Habitable Worlds Review Panel	2017
Polish Grant Review	2016
External Thesis Review	2016
Kepler GO Review Panel	2015
Kepler PSP Review Panel	2013
Kepler GO Review Panel, Cycle 3	2011
Referee, Astronomy & Astrophysics	2015
Referee, Monthly Notices of the Royal Astronomical Society	2012-2013
Referee, Astrophysical Journal	2012
Referee, Astronomical Journal	2010
SOC: Extreme Radial Velocities II, Yale	2015
Co-Chair, Cool Stars 16 Splinter Session	2010
LOC: PSU/CEHW/NExScI Precision RV Workshop	2010
Volunteer: "Ask an Astronomer," Annual JPL Open House	2008-2010
LOC: 5th Spitzer Conference: New Light on Young Stars	2008
LOC: Annual JPL Spitzer Science Fair	2007, 2008

Major Research Collaborations

YSOVAR & CSI 2264 Collaborations	2008-current
Near-Infrared Radial Velocities Collaboration	2009-current
PI	
LSST Stellar Populations Science Collaboration	2011-current
MINERVA	2013-current
Spectrograph Scientist	
NASA EarthFinder Probe Mission Concept Study	2016-current
PI	
MINERVA-Australis	2016-current
Co-PI	
Sci-STEPS NSF INCLUDES Pilot Study Team	2016-current
Former co-Chair, Transfer Student Retention Juncture Team	
NASA HabEx Mission Concept Study Science & Technology Definitions Team	2017-current
iSHELL Science Team	2017-current
The KELT Survey Follow-Up Network	2017-current
NASA TESS Mission Follow-Up Working Group	2018-current
HISPEC/MODIUS Science Definition Team	2019-current
NASA TESS Mission Target Selection Working Group	2013-2019
Weather on Other Worlds	2011-2015
The Palomar Transient Factory Orion Project	2011-2015
NASA WFIRST Mission Target Selection Working Group	2017
NASA Spitzer Mission MIPS GTO team	2004-2008

Refereed Publication Statistics

Refereed publications: 70
Refereed h-index: 31 [source: NASA ADS]
Refereed citations: 2874 all, 402 first author
bold – 9 refereed first author; **blue** – refereed 12 student paper/second author

Refereed Journal Publications - 70

2019 submitted (and not counted):

Plavchan, P., et al., "Newly formed planets within the debris disk of the nearest pre-main sequence star AU Mic," 2019, *Nature,* under consideration, favorable referee reports received

2019:

Addison, Brett; Wright, Duncan J.; Wittenmyer, Robert A.; Horner, Jonathan; Mengel, Matthew W.; Johns, Daniel; Marti, Connor; Nicholson, Belinda; Soutter, Jack; Bowler, Brendan; Crossfield, Ian; Kane, Stephen R.; Kielkopf, John; Plavchan, Peter; Tinney, C. G.; Zhang, Hui; Clark, Jake T.; Clerte, Mathieu; Eastman, Jason D.; Swift, Jon Bottom, Michael; Muirhead, Philip; McCrady, Nate; Herzig, Erich; Hogstrom, Kristina; Wilson, Maurice; Sliski, David; Johnson, Samson A.; Wright, Jason T.; Johnson, John Asher; Blake, Cullen; Riddle, Reed; Lin, Brian; Cornachione, Matthew; Bedding, Timothy R.; Stello, Dennis; Huber, Daniel; Marsden, Stephen; Carter, Bradley D.; "Minerva-Australis I: Design, Commissioning, & First Photometric Results," 2019, *Proceedings of the Astronomical Society of the Pacific*, in press

Cale, Bryson; Plavchan, Peter; LeBrun, Danny; Gagné, Jonathan; Gao, Peter; Tanner, Angelle; Beichman, Charles; Xeusong-Wang, Sharon; Gaidos, Eric; Teske, Johanna; Ciardi, David; Vasisht, Gautam; Kane, Stephen R.; von Braun, Kaspar; "Precise Radial Velocities of Cool Low Mass Stars with iSHELL," 2019, *AAS Journals*, in press

Huber, Daniel; Chaplin, William J.; Chontos, Ashley; Kjeldsen, Hans; Christensen-Dalsgaard, Jørgen; Bedding, Timothy R.; Ball, Warrick; Brahm, Rafael; Espinoza, Nestor; Henning, Thomas; Jordán, Andrés; Sarkis, Paula; Knudstrup, Emil; Albrecht, Simon; Grundahl, Frank; Fredslund Andersen, Mads; Pallé, Pere L.; Crossfield, Ian; Fulton, Benjamin; Howard, Andrew W. Isaacson, Howard T.; Weiss, Lauren M.; Handberg, Rasmus; Lund, Mikkel N.; Serenelli, Aldo M.; Rørsted Mosumgaard, Jakob; Stokholm, Amalie; Bieryla, Allyson; Buchhave, Lars A.; Latham, David W.; Quinn, Samuel N.; Gaidos, Eric; Hirano, Teruyuki; Ricker, George R.; Vanderspek, Roland K.; Seager, Sara; Jenkins, Jon M.; Winn, Joshua N.; Antia, H. M.; Appourchaux, Thierry; Basu, Sarbani; Bell, Keaton J.; Benomar, Othman; Bonanno, Alfio; Buzasi, Derek L.; Campante, Tiago L.; Çelik Orhan, Z.; Corsaro, Enrico; Cunha, Margarida S.; Davies, Guy R.; Deheuvels, Sebastien; Grunblatt, Samuel K.; Hasanzadeh, Amir; Di Mauro, Maria Pia; García, Rafael A.; Gaulme, Patrick; Girardi, Léo; Guzik, Joyce A.; Hon, Marc; Jiang, Chen; Kallinger, Thomas; Kawaler, Steven D.; Kuszlewicz, James S.; Lebreton, Yveline; Li, Tanda; Lucas, Miles; Lundkvist, Mia S.; Mann, Andrew W.; Mathis, Stéphane; Mathur, Savita; Mazumdar, Anwesh; Metcalfe, Travis S.; Miglio, Andrea; Monteiro, Mário J. P. F. G.; Mosser, Benoit; Noll, Anthony; Nsamba, Benard; Ong, Jia Mian Joel; Örtel, S.; Pereira, Filipe; Ranadive,

Pritesh; Régulo, Clara; Rodrigues, Thaíse S.; Roxburgh, Ian W.; Silva Aguirre, Victor; Smalley, Barry; Schofield, Mathew; Sousa, Sérgio G.; Stassun, Keivan G.; Stello, Dennis; Tayar, Jamie; White, Timothy R.; Verma, Kuldeep; Vrard, Mathieu; Yıldız, M.; Baker, David; Bazot, Michaël; Beichmann, Charles; Bergmann, Christoph; Bugnet, Lisa; Cale, Bryson; Carlino, Roberto; Cartwright, Scott M.; Christiansen, Jessie L.; Ciardi, David R.; Creevey, Orlagh; Dittmann, Jason A.; Do Nascimento, Jose-Dias, Jr.; Van Eylen, Vincent; Fürész, Gabor; Gagné, Jonathan; Gao, Peter; Gazeas, Kosmas; Giddens, Frank; Hall, Oliver J.; Hekker, Saskia; Ireland, Michael J.; Latouf, Natasha; LeBrun, Danny; Levine, Alan M.; Matzko, William; Natinsky, Eva; Page, Emma; Plavchan, Peter; Mansouri-Samani, Masoud; McCauliff, Sean; Mullally, Susan E.; Orenstein, Brendan; Garcia Soto, Aylin; Paegert, Martin; van Saders, Jennifer L.; Schnaible, Chloe; Soderblom, David R.; Szabó, Róbert; Tanner, Angelle; Tinney, C. G.; Teske, Johanna; Thomas, Alexandra; Trampedach, Regner; Wright, Duncan; Yuan, Thomas T.; Zohrabi, Farzaneh; "A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS," 2019, *Astronomical Journal*, 157, 245

Nielsen, L. D.; Bouchy, F.; Turner, O.; Giles, H.; Mascareño, A. Suárez; Lovis, C.; Marmier, M.; Pepe, F.; Ségransan, D.; Udry, S.; Otegi, J. F.; Ottoni, G.; Stalport, M.; Ricker, G.; Vanderspek, R.; Latham, D. W.; Seager, S.; Winn, J. N.; Jenkins, J. M.; Kane, S. R. Wittenmyer, R. A.; Bowler, B.; Crossfield, I.; Horner, J.; Kielkopf, J.; Morton, T.; Plavchan, P.; Tinney, C. G.; Zhang, Hui; Wright, D. J.; Mengel, M. W.; Clark, J. T.; Okumura, J.; Addison, B.; Caldwell, D. A.; Cartwright, S. M.; Collins, K. A.; Francis, J.; Guerrero, N.; Huang, C. X.; Matthews, E. C.; Pepper, J.; Rose, M.; Villaseñor, J.; Wohler, B.; Stassun, K.; Howell, S.; Ciardi, D.; Gonzales, E.; Matson, R.; Beichman, C.; Schlieder, J.; "A Jovian planet in an eccentric 11.5 day orbit around HD 1397 discovered by TESS," 2019, *Astronomy & Astrophysics*, 623, A100

Stassun, Keivan G.; Oelkers, Ryan J.; Paegert, Martin; Torres, Guillermo; Pepper, Joshua; De Lee, Nathan; Collins, Kevin; Latham, David W.; Muirhead, Philip S.; Chittidi, Jay; Rojas-Ayala, Bárbara; Fleming, Scott W.; Rose, Mark E.; Tenenbaum, Peter; Ting, Eric B.; Kane, Stephen R.; Barclay, Thomas; Bean, Jacob L.; Brassuer, C. E.; Charbonneau, David Ge, Jian; Lissauer, Jack J.; Mann, Andrew W.; McLean, Brian; Mullally, Susan; Narita, Norio; Plavchan, Peter; Ricker, George R.; Sasselov, Dimitar; Seager, S.; Sharma, Sanjib; Shiao, Bernie; Sozzetti, Alessandro; Stello, Dennis; Vanderspek, Roland; Wallace, Geoff; Winn, Joshua N.; "The Revised TESS Input Catalog and Candidate Target List," 2019, *AAS Journals*, in press

Vanderburg, Andrew; Huang, Chelsea X.; Rodriguez, Joseph E.; Becker, Juliette C.; Ricker, George R.; Vanderspek, Roland K.; Latham, David W.; Seager, Sara; Winn, Joshua N.; Jenkins, Jon M.; Addison, Brett; Bieryla, Allyson; Briceño, Cesar; Bowler, Brendan P.; Brown, Timothy M.; Burke, Christopher J.; Burt, Jennifer A.; Caldwell, Douglas A.; Clark, Jake T.; Crossfield, Ian Dittmann, Jason A.; Dynes, Scott; Fulton, Benjamin J.; Guerrero, Natalia; Harbeck, Daniel; Horner, Jonathan; Kane, Stephen R.; Kielkopf, John; Kraus, Adam L.; Kreidberg, Laura; Law, Nicolas; Mann, Andrew W.; Mengel, Matthew W.; Morton, Timothy D.; Okumura, Jack; Pearce, Logan A.; Plavchan, Peter; Quinn, Samuel N.; Rabus, Markus; Rose, Mark E.; Rowden, Pam; Shporer, Avi; Siverd, Robert J.; Smith, Jeffrey C.; Stassun, Keivan; Tinney, C. G.; Wittenmyer, Rob; Wright, Duncan J.; Zhang, Hui; Zhou, George; Ziegler, Carl A.; "TESS Spots a Compact System of Super-Earths around the Naked-Eye Star HR 858," 2019, *Astrophysical Journal Letters*, 881, L19

Wilson, Maurice L.; Eastman, Jason D.; Cornachione, Matthew A.; Wang, Sharon X.; Johnson, Samson A.; Sliski, David H.; Schap, William J., III; Morton, Timothy D.; Johnson, John Asher; McCrady, Nate; Wright, Jason T.; Wittenmyer, Robert A.; Plavchan, Peter; Blake, Cullen H.; Swift, Jonathan J.; Bottom, Michael; Baker, Ashley D.; Barnes, Stuart I.; Berlind, Perry;

Blackhurst, Eric Beatty, Thomas G.; Bolton, Adam S.; Cale, Bryson; Calkins, Michael L.; Colón, Ana; de Vera, Jon; Esquerdo, Gilbert; Falco, Emilio E.; Fortin, Pascal; Garcia-Mejia, Juliana; Geneser, Claire; Gibson, Steven R.; Grell, Gabriel; Groner, Ted; Halverson, Samuel; Hamlin, John; Henderson, M.; Horner, J.; Houghton, Audrey; Janssens, Stefaan; Jonas, Graeme; Jones, Damien; Kirby, Annie; Lawrence, George; Luebbers, Julien Andrew; Muirhead, Philip S.; Myles, Justin; Nava, Chantanelle; Rivera-García, Kevin O.; Reed, Tony; Relles, Howard M.; Riddle, Reed; Robinson, Connor; Chaput de Saintonge, Forest; Sergi, Anthony; "First radial velocity results from the MINiature Exoplanet Radial Velocity Array (MINERVA) ," 2019, *Proceedings of the Astronomical Society of the Pacific*, in press

2018:

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Non-refereed publications: 34
Non-refereed citations: 119 all, 49 first author
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2006:

Plavchan P., Jura M., & Lipscy S.J., "Where are the M Dwarf Exo-Zodiacal Disks?" in *The Spitzer Space Telescope: New Views of the Cosmos,* ASP Conference Series, Volume 357, proceedings of the conference held 9-12 November, 2004 in Pasadena, California, USA. Edited by L. Armus and W.T. Reach. San Francisco: Astronomical Society of the Pacific, 2006., p.127

2005:

Plavchan, P. & Jura, M., "M Dwarf Transit Survey with the 2MASS Calibration Database" in *Protostars and Planets V*, Proceedings of the Conference held October 24-28, 2005, in Hilton Waikoloa Village, Hawai'i. LPI Contribution No. 1286, p.8641

Plavchan P., Jura M., & Lipscy S.J., "The Case of the Missing Disks," 2005, Press Release presented at the 205th Meeting of the American Astronomical Society, San Diego, CA

Invited Talks - 61

"What do we need for EPRV?" invited, NASA Exoplanet Science Strategy: Extreme Precise Radial Velocity Initiative Working Group Face to Face Meeting, St Louis 2019/06/13
"The Golden Age of Exoplanet Discovery," invited, Evening Under the Stars, George Mason University 2019/04/29
"EarthFinder: A NASA-selected Probe Mission Concept Study for input to the 2020 Astrophysics Decadal," invited, Space Astrophysics Landscape of the 2020s 2019/04/02
"EarthFinder: A NASA-selected Probe Mission Concept Study for input to the 2020 Astrophysics Decadal," NASA ExoPAG meeting 2019/01/06
"Freshman Retention Juncture," invited, SciSTEPS team meeting, Vanderbilt 2018/12/13
"Simulating Precursor Radial Velocity Surveys for HabEx," invited, HabEx Mission STDT Face-to-Face meeting 2018/10/18
"Community College to 4 Year Juncture," invited, SciSTEPS team meeting, Vanderbilt 2018/08/16
"EarthFinder: A NASA-selected Probe Mission Concept Study for input to the 2020 Astrophysics Decadal," invited, Sagan Summer Workshop, Pasadena, CA 2018/07/27
"Exoplanet Research at George Mason University," invited, Chesapeake Bay Area Exoplanet Meeting 2018/09/07
"The Promise of Precise Radial Velocity Surveys for Exoplanets", invited, Subaru Telescope, NAOJ, Hilo, HI 2018/07/20
"The Promise of Precise Radial Velocity Surveys for Exoplanets", invited, US Naval Observatory 2018/05/10
"Tools for Hunting Exoplanets," invited, Science on the Hill Congressional Talk Series 2018/04/19
"The Promise of Precise Radial Velocity Surveys for Exoplanets", invited, Space Telescope Science Institute Seminar 2018/04/13
"The Promise of Precise Radial Velocity Surveys for Exoplanets", invited, Carnegie DTM Seminar 2018/03/01
"The Promise of Precise Radial Velocity Surveys for Exoplanets", invited, NASA Goddard Exoplanets Seminar 2018/02/06
"Conference Summary," invited, Extreme Precise Radial Velocities III, Penn State 2017/08/17
"Absorption Cells," invited, Extreme Precise Radial Velocities III, Penn State 2017/08/14
"2017 Solar Eclipse," invited, Rotary Club of Springfield North, Missouri 2017/05/16
"The Golden Age of Exoplanet Discovery," invited, George Mason University Physics & Astronomy Department Seminar 2017/03/27
"The Golden Age of Exoplanet Discovery," invited, Kansas City Astronomical Society, Missouri 2017/03/25
"The Golden Age of Exoplanet Discovery," invited, College of Charleston Physics & Astronomy Department Seminar 2017/02/21
"The Golden Age of Exoplanet Discovery," invited, UT Dallas Physics & Astronomy Department Seminar 2017/02/08
"The Golden Age of Exoplanet Discovery," invited, St Louis Astronomical Society, Missouri 2017/01/20
"Overview of Coming IR PRV Machines," invited, NASA TESS mission science team meeting, MIT 2016/12/09

"Plans for Evaluating the Impact of Precursor RV Observations," invited, HabEx Science and Technology Definition Team Meeting, New Haven, CT 2016/11/10
"The Golden Age of Exoplanet Discovery," invited, The Library Center, Armchair Lecture Series, Springfield, Missouri 2016/10/26
"The Golden Age of Exoplanet Discovery," invited, Springfield Astronomical Society, Missouri 2016/09/27
"Astrostatistics: The intersection of Astronomy and Math," invited, MSU Math Student Association 2016/09/26
"Bears In The Know Luncheon Series: Exoplanets," invited, MSU 2016/09/22
"Approaching the Stellar Astrophysical Limits to Exoplanet Detection: Getting to 10 cm/s," invited, Aspen Center for Physics 2016/08/29
"The Promise of Multi-Wavelength Precise Radial Velocity Surveys for Exoplanets," invited, NASA Goddard, Maryland 2016/06/20
"The Promise of Multi-Wavelength Precise Radial Velocity Surveys for Exoplanets," invited, NASA JPL, Pasadena, CA 2016/05/19
"The Golden Age of Exoplanet Discovery," invited, Astrobiology Symposium University of Missouri, St Louis 2016/04/08
"Precise Radial Velocities and other Exoplanet Science Initiatives," invited, Truman State University Colloquium 2016/02/19
"Project NIRRVS: Precise Near Infrared Radial Velocity Surveys of Low-Mass M Dwarfs," invited colloquium, Penn State University 2015/11/16
"Finding Exoplanets with the Radial Velocity Method," invited colloquium, University of Missouri, Kansas City 2015/11/06
"The Golden Age of Exoplanets," invited, CNAS Public Lecture Series, Missouri State University 2015/10/13
"The Golden Age of Exoplanets," invited, Ozark Maker Faire, Springfield, MO 2015/08/29
"The Golden Age of Exoplanets," invited Banquet keynote, Missouri Spacegrant Consortium Annual Meeting 2015/04/24
"Precise Radial Velocities and other Exoplanet Science Initiatives," Origins Seminar, invited, University of Arizona 2015/03/19
"Precise Radial Velocities and other techniques for the detection of exoplanets," invited, University of Missouri, Columbia 2015/02/23
"Precise Radial Velocities and other techniques for the detection of exoplanets," invited, Missouri State University 2015/02/05
"NASA Exo-PAG Radial Velocity Study Analysis Group," invited, Exo-PAG11 2015/01/03
"Project NIRRVS: Precise Near-Infrared Radial Velocity Survey," invited, University of Missouri, St Louis 2014/11/07
"Project NIRRVS: Precise Near-Infrared Radial Velocity Survey," invited, Missouri State University 2014/04/15
"Project NIRRVS: Precise Near-Infrared Radial Velocity Survey," invited, Tel Aviv University, Israel 2014/03/19
"Investigation of Kepler Objects of Interest Stellar Parameters from Observed Transit Durations," invited, Tel Aviv University, Israel 2014/03/18
"Project NIRRVS: Precise Near-Infrared Radial Velocity Survey," invited, Weizmann Institute, Israel 2014/03/17
"NASA Exo-PAG Radial Velocity Study Analysis Group," invited, Exo-PAG 9 2014/01/04
"NASA Exo-PAG Radial Velocity Study Analysis Group," invited, Exo-PAG 8 2013/10/05
"NASA Exo-PAG Radial Velocity Study Analysis Group," invited, Exo-PAG 7 2013/01/05
"Radial Velocity Surveys," invited, How to Find Out Nearest Neighbors, Lorentz Center Workshop, Leiden, Netherlands 2012/10/22

"NASA Exo-PAG Radial Velocity Study Analysis Group," invited, Exo-PAG 6 2012/10/14
"NIRSPEC Upgrade Design Study," invited, Keck Science Steering Committee 2012/06/20
"The Quest for Exoplanets," invited, Physics Colloquium, RIT 2012/05/31
"The Hunt for Exoplanets," invited, Capital Area Amateur Astronomers, Michigan 2012/05/02
"New Near-IR Techniques for Precision Radial Velocities," invited, Georgia State University colloquium 2011/11/29
"Exploiting the Variability of Young Stars," invited, Greater IPAC Science Symposium, Caltech 2010/05/11
"Young Stars in the Time Domain," invited, Carnegie DTM 2010/04/30
"Detecting Transiting Planets – CoRoT and Systematic Sources of Error in Time-Series Data," invited, AY 218 Lecture, Caltech 2009/05/19
"Detecting Transiting Planets - Systematic Sources of Error in Time-Series Data and Period-Finding Algorithms," invited, Greater IPAC Technology Symposium, Caltech 2009/05/14

Contributed Talks - 56

"Newly Formed Planets within the Debris Disk of a Pre-main-sequence Star," contributed, Extreme Solar Systems IV, Reykjavik, Iceland 2019/08/19
"Precise Near-Infrared Radial Velocities with iSHELL," contributed, Extreme Precise Radial Velocities IV, Grindelwald, Switzerland 2019/03/20
"EarthFinder: A NASA-selected Probe Mission Concept Study for input to the 2020 Astrophysics Decadal," contributed, 233rd meeting of the American Astronomical Society, Seattle, WA 2019/01/09
"EarthFinder: A Probe Mission Concept Study for the Precise Radial Velocity Detection of Earth-Mass Exoplanets," contributed, 42nd COSPAR Scientific Assembly, Pasadena, CA 2019/07/14
"Precise Radial Velocities with iSHELL update," contributed, NASA IRTF Future Directions Workshop, Biodome II, AZ 2018/02/13
"EarthFinder," contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/16
"StarSIM 2.0," contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/16
"iSHELL," contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/15
"EarthFinder," contributed, "Exoplanet Science with Small Telescopes: Precise Radial Velocities Conference," U Penn 2017/04/24
"MICRONERVA," contributed, "Exoplanet Science with Small Telescopes: Precise Radial Velocities Conference," U Penn 2017/04/24
"Discovery of A Jovian Planet Candidate Around AU Mic," contributed, 229th meeting of the American Astronomical Society, Grapevine, TX 2017/01/06
"The Promise of Multi-Wavelength Precise Radial Velocity Surveys for Exoplanets," contributed, Caltech IPAC, Pasadena, CA 2016/06/08
"The Latest Results from Project NIRRVS: Precise Near Infrared Radial Velocity Surveys," contributed, 227th meeting of the American Astronomical Society, Kissimmee, FL 2016/01/06
"Precise Near-Infrared Radial Velocities with CSHELL, iSHELL and MINERVA-RED," contributed, Pathways to Habitable Exoplanets II, Bern, Switzerland 2015/07/15

"Precise Radial Velocities and other Exoplanet Science Initiatives," contributed, Mid-American Regional Astrophysics Conference 2015/04/17
"Project NIRRVS: Precise Near-Infrared Radial Velocity Survey," contributed, Greater IPAC Science Symposium, Caltech 2014/03/27
"Precise Near-Infrared Radial Velocities," contributed, 223rd Meeting of the American Astronomical Society, Washington, DC 2014/01/09
"Investigation of Kepler Objects of Interest Stellar Parameters from Observed Transit Durations," contributed, Kepler Science Conference 2, NASA Ames, CA 2013/11/05
"Precision Near-Infrared Radial Velocity Instrumentation II: Non-circular Core Fiber Scrambler," SPIE, contributed, San Diego, CA 2013/08/27
"Precision Near-Infrared Radial Velocity Instrumentation and Exoplanet Survey," contributed, 221st Meeting of the American Astronomical Society, Long Beach, CA 2013/01/07
"Precision Near-Infrared Radial Velocities," contributed, JPL, Astrophysics Science Fair 2012/11/19
"Near-Infrared Precision Radial Velocities Update," contributed, Greater IPAC Science Symposium, Caltech 2012/03/19
"Time Series Data Sets and Tools at the NASA Exoplanet Archive," contributed, Caltech Time Domain Forum 2012/02/09
"A Concept for an Extremely Large Telescope in Space," contributed, JPL CubeSat Symposium 2011/08/15
"Near-Infrared Radial Velocities," contributed, Greater IPAC Science Symposium, Caltech 2011/05/11
"Near-Infrared Radial Velocities," contributed, Exploring Strange New Worlds: From Giant Planets to Super Earths, Flagstaff, AZ 2011/05/06
"Young Stars in the Time Domain," Space Telescope Science Institute, Star and Planet Formation Journal Club 2010/12/13
"Near-Infrared Radial Velocities with NIRSPEC," contributed, Keck Science Meeting, UC Berkeley 2010/10/16
"The Future of Near-Infrared Radial Velocities," JPL Exoplanet Program Planning Retreat, Ventura, CA 2010/09/22
"M Dwarf Debris Disks," contributed, Cool Stars 16, Seattle, WA 2010/08/29
"The Future of Near-Infrared Radial Velocities," contributed, Astronomy of Exoplanets with Precise Radial Velocities, Penn State, PA 2010/08/19
"Adding a LASER Frequency Comb to NIRSPEC," Keck Science Meeting, Caltech 2009/09/21
"New M Dwarf Debris Disks Discovered with the Spitzer Space Telescope," 214th Meeting of the American Astronomical Society, Pasadena, CA 2009/06/11
"New M Dwarf Debris Disks," University of Arizona 2009/01/23
"New M Dwarf Debris Disks," Greater IPAC Science Symposium, Caltech 2009/01/22
"MIPS Discovery of New M Dwarf Debris Disks," Spitzer Science Fair, JPL 2008/10/21
"M Dwarf Disks," Cool Stars 15, St Andrews, Scotland 2008/07/24
"Unveiling Disks Around M Dwarfs," Stars and Brown Dwarfs Lunch Talk, Caltech 2008/04/25
"Unveiling Disks Around M Dwarfs," Exoplanet Science Seminar, JPL 2008/04/24
"The Peculiar Periodic YSO WL4 in Rho Ophiuchus," Caltech-Carnegie Postdoc Retreat 2008/04/14
"The Peculiar Periodic YSO WL4," Disk Workshop, Caltech 2008/03/20

"The Peculiar Periodic YSO WL4," Exoplanet Science And Technology Fair, JPL	2008/02/22
"The Peculiar Periodic YSO WL4 in Rho Ophiuchus," 211th Meeting of the American Astronomical Society, Austin TX	2008/01/11
"Unveiling Disks Around M Dwarfs," CfA Journal Club, Harvard	2007/10/03
"New Debris Disks Around Young Solar Analogs Discovered With The Spitzer Space Telescope," IAU Symposium No. 249, Suzhou, China	2007/10/26
"Prospecting for Transits in 2MASS and Other Surveys," NAOJ, Mitaka, Japan	2007/10/15
"Prospecting for Transits in 2MASS and Other Surveys," Michelson Science Center Workshop, NASA Ames	2007/07/27
"New Spitzer Debris Disks Around Young Solar Analogs," Spitzer Science Fair, JPL	2007/05/22
"M Dwarf Planetary Systems," Caltech-Carnegie Postdoc Retreat	2007/04/10
"M Dwarf Planetary Systems," Monday Lunch Talks, JPL	2007/02/26
"M Dwarf Planetary Systems: A Transit Search with the 2MASS Calibration Database," 209th Meeting of the American Astronomical Society, Seattle, WA	2007/01/10
"A Transit Search with the 2MASS Calibration Database," IPAC Science Seminar	2006/10/03
"Highlights from Protostars and Planets V," Journal Club, UCLA	2005/11/29
"An M Dwarf Transit Search using the 2MASS Calibration Fields," Solar, Stellar and Planetary Sciences Seminar, CfA, Harvard	2005/11/21
"An Odyssey of Near-Infrared Variability: The 2MASS Calibration Fields," Journal Club, UCLA	2005/11/08
"See SPOT Run: The Spitzer Observation Planning Tool," Journal Club, UCLA	2003/11/04

Courses Taught

Bold = New course I created

George Mason University:

2019 Fall	ASTR 602	Methods of Observational Astronomy Cross-listed with ASTR 402
2019 Fall	PHYS 408	Senior Research
2019 Fall	ASTR 402	Methods of Observational Astronomy Senior Lab and Capstone Course
2019 Fall	ASTR 112	Introductory Astronomy Lab: The Solar System
2019 Spring	PHYS 796	Directed Reading and Research
2019 Spring	PHYS 703	Department Seminar
2019 Spring	PHYS 408	Senior Research
2019 Spring	**ASTR 124 / ASTR 390**	**Introduction to Observational Astronomy**
2018 Fall	PHYS 796	Directed Reading and Research
2018 Fall	PHYS 703	Department Seminar
2018 Fall	ASTR 602	Methods of Observational Astronomy Cross-listed with ASTR 402
2018 Fall	ASTR 402	Methods of Observational Astronomy Senior Lab and Capstone Course
2018 Spring	**ASTR 620 / ASTR 590**	**Exoplanets**
2018 Spring	**ASTR 420 / ASTR 390**	**Exoplanets**
2018 Spring	PHYS 408	Senior Research
2017 Fall	PHYS 796	Directed Reading and Research
2017 Fall	ASTR 602	Methods of Observational Astronomy Cross-listed with ASTR 402
2017 Fall	ASTR 402	Methods of Observational Astronomy Senior Lab and Capstone Course
2017 Fall	ASTR 112	Introductory Astronomy Lab: The Solar System

Missouri State University:

2017 Spring	**AST 698**	**Astronomy Seminar**
2017 Spring	**AST 398**	**Astronomy Seminar**
2017 Spring	PHY 386/486	Senior Thesis Research
2017 Spring	AST 113 (2 lectures)	Modern Astronomy
2016 Fall	**AST 613**	**Exoplanets**
2016 Fall	PHY 386/486	Senior Thesis Research
2016 Fall	**AST 112**	**Life in the Universe**
2016 Spring	PHY 386/486	Senior Thesis Research
2016 Spring	AST 115H	Basic Astronomy
2016 Spring	AST 113	Modern Astronomy
2015 Fall	PHY 386/486	Senior Thesis Research
2015 Fall	AST 311	Astronomical Techniques
2015 Fall	AST 113	Modern Astronomy
2015 Spring	PHY 386/486	Senior Thesis Research
2015 Spring	AST 114	Survey of Astronomy
2014 Fall	PHY 386	Senior Thesis Research

2014 Fall	AST 114	Survey of Astronomy

Cerritos College:

2014 Spring	ASTR 102 (3 lectures)	Stars and Galaxies

UCLA:

2010 Summer	ASTR 5	Life in the Universe
2010 Spring	ASTR 4	Black Holes and Cosmic Catastrophes

University of Judaism (now known as American Jewish University):

2006 Spring	NSC 180	Elementary Astronomy
2004 Fall	NSC 180	Elementary Astronomy