January 2025

Curriculum Vitae

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Familial History

1955/09/07	Born	Salinas California
1989/01/01	Married	Ann Marie McCandliss (nee Selander)
1989/11/10	Daughter	Rachel Pearl McDiehl (nee McCandliss)
1992/05/26	Son	Ian Frederick McCandliss

Education

1988	Ph.D. Astrophysics	University of Colorado, Boulder
1981	B.S. Physics	University of Washington, Seattle
1981	B.S. Astronomy	University of Washington, Seattle

Work History

2015 – present	Director, Center for Astrophysical Sciences	Johns Hopkins University
2010 – present	Research Professor	Johns Hopkins University
2002 – 2010	Principal Research Scientist	Johns Hopkins University
1994 – 2002	Research Scientist	Johns Hopkins University
1988 – 1994	Associate Research Scientist	Johns Hopkins University
1981 – 1988	Ph.D. Candidate	University of Colorado, Boulder
1977 – 1981	Reader and Lab Assistant	University of Washington, Seattle

Primary Research Interests

Ionization history of the universe
Spectral signatures of dust, molecules, and atoms in astrophysical environments
Rapid-response space science missions and enabling low-cost access to space
Space-based astronomical instrumentation
Next Generation Great Observatories

Service (Internal and External)

2024	KSAS Committee for Academic Matters – Norms Subcommittee
2024	CoChair, iPhotons Subcommittee of Galaxy Growth Working Group for HWO
2024	AAS 243 Mind the Gap & UVSTIG Splinter Sessions
2023	AAS 241 UVSTIG Splinter Sessions – Science and Technology Trade Space for HWO
2021 – present	Quorum for UV Exploration of Science and Technology (QUEST) Seminar Organizer
2021, 2022	AAS 237, notAAS 239 UV Sci. and Tech. Interest Group (UVSTIG) Splinter Organizer
2020 – present	Homewood Faculty Assembly Committee on Teaching & Research Track Faculty
2020	SOFIA Instrument Road Map Red Team Reviewer

2020	NASA Astrophysics Science SmallSat Study Reviewer
2020	NASA Roman Technology Fellowship Reviewer
2019 – present	Cosmic Origins Program Analysis Group – Executive Council (COPAG-EC)
2019	COPAG, Great Observatories Science Advisory Group – 10 (SAG-10)
2019 – present	JHU Rep – Universities Space Research Association (USRA) Council of Institutions
2018	NASA Earth and Space Science Fellowship Program Reviewer
2018	NSF Astronomy and Astrophysics Grants, Galaxy Evolution Reviewer
2017	HST Cycle 24 Mid-Cycle Reviewer
2017 – present	JHU Representative to USRA's Council of Institutions
2016 – 2019	LUMOS Spectrograph Definition Team for LUVOIR and Technology Assessment Team
2016 – 2019	Sounding Rocket Working Group
2016, 2017	NASA Nancy Grace Roman Technology Fellowship Reviewer
2013	HST Cycle 21 Proposal Reviewer
2012 – present	Physics and Astronomy Faculty Meeting Minutes
2011	NASA APRA/SAT UV/Vis Review Panel Chair
2011	NSF Astronomy Advanced Technology and Instrumentation Opt/IR Reviewer
2008 – 2012	Astrophysics Sounding Rocket Assessment Team
2008, 2009	NASA APRA UV/Vis Reviewer
2008, 2010	HST Cycle 17, 18 Proposal Reviewer
2008	Spitzer Cycle 5 Proposal Reviewer
1999 – 2003	Sounding Rocket Working Group

Memberships

1986 – present	American Astronomical Society
1994 – 2003	Optical Society of America

Awards

2019	NASA Group Achievement: Astrophysics Large Mission Study Team
1998	NASA Group Achievement: Comet Hale-Bopp Sounding Rocket Campaign
1996	NASA Group Achievement: 1995 Woomera Sounding Rocket Campaign

Invited talks

Nov 2024	NASA/ UV-VIS PI Review	OAxFORTIS Observations of the Globular Cluster M10
Oct 2024	JHU/GSFC Interaction Day	Habitable Worlds Observatory Overview
May 2024	UV Science & Tech Workshop JPL	1) Direct Detection of Ionizing Radiation with HWO 2) Report on Mind the Gap Session at AAS241
Nov 2023	NASA/ UV-VIS PI Review	JHU/NASA 36.384 UG - Update on OAxFORTIS Payload Preparation
May 2023	COPAG-EC Strategic Planning Meeting	HWO Science Enabled by Lyman Ultraviolet Capability - Technical Requirements and Status
Jan 2020	HabEx Splinter Session Honolulu AAS 235	Comparing Ionizing Radiation Direct Detection Capabilities of NASA Strategic Missions
Jan 2020	COPAG SAG-10 Splinter Session	Great Observatories the Past and Future of Panchromatic Astrophysics: Capabilities and Facilities Summary

	Honolulu AAS235	
Sep 2019	NASA/ UV-VIS PI Review	JHU/NASA 36.352 UG Experimenter Data Package: FORTIS Observations of M33
Jan 2019	SAG-10 Seattle AAS233	Cosmic Origins Science Advisory Group – 10 Great Observatories: Working Group 5 – Capabilities and Facilities
Oct 2018	Science with HabEx Flatiron Institute	Ionizing Radiation over Cosmic Time with HabEx
Sep 2018	NASA/ UV-VIS PI Review	Preparing for NGFORTIS Observations of M10: NASA/JHU 36.352 UG
Apr 2017	STScI Spring Symposium	Maximizing science return for COS LUV modes
Sep 2017	NASA/ UV-VIS PI Review	Scattered light characterization of Next Generation FORTIS
Feb 2014	2014 SOFIA Science Colloquium	Entrepreneurial space astrophysics enabled by new technologies – Nurturing the space-adept in a sounding rocket crucible

Responsibilities – Director of Center for Astrophysical Sciences

Charged with promoting the research of the CAS cohort of professors, research scientists, and post-docs; nurturing and providing organization support for large scientific projects; leading the strategic planning in astrophysics; fostering cooperation with local astrophysics institutions; providing advice on a structured career path for members of the research staff.

Responsibilities – Sounding Rocket PI

- Develop science directions and goals, instrumentation innovations, data analysis techniques and work schedules for the sounding rocket group.
- Oversee the work of students, administrative assistants, technicians, engineers, and scientists working in small-team laboratory and field environments.
- Conduct reviews with experiment, launch and service providers, to ensure compliance with mission success criteria.
- Oversee calibration, integration, testing, and performance verification and launch preparations.
- Make launch go/nogo decision.
- Develop follow-up observing projects to expand upon previous results.
- Author scientific papers, proposals, budgets, statements of work, and grant reports.
- Serve as a panelist on NASA science peer review and planning committees.

Supervised PhD Candidates and Graduates

2020-Present	Ms. Mackenzie Calson	**OAxFORTIS (in progress)**
2020-Present	Ms. Isu Ravi	**Lyman Alpha Filter (in progress)**

2020-2024	Dr. Jack Piotrowski Carnegie Obsevatories	**Optical characterization of digital micromirror devices for astronomical instrumentation**
2018-2022	Dr. Brian Welch (PostDoc - GSFC)	**Investigations of Star Formation and Ionizing Radiation Across Time and Spatial Scales**
2010 – 2018	Dr. Keith Redwine (Senior Staff/APL)	**Lyman Alpha Escape from Starforming Galaxies**
2017-2018	Dr. Matthew Morris (Northrop Grumman)	**Stellar Atmospheric Modeling and Subsystem Development For The Access Program**
2017-2018	Dr. Murdock Hart (Perkins Tel Obs, BU)	**Enabling Fainter Astronomical Observations Through Sky Subtraction and Instrumental Performance**
2007 – 2013	Prof. Brian T. Fleming (LASP/CU)	**The Search for Lyman Alpha Escape from Nearby Starforming Galaxies**
2003 – 2009	Dr. Roxana Lupu (BLAST/UPenn, SETI)	**Molecular and Dust Scattering Processes in Astrophysical Environments**
1999 – 2005	Prof. Kevin France (COS/LASP/CU)	**Far-Ultraviolet Molecular Hydrogen Fluorescence in Photodissociation Regions**
1996 – 2001	Dr. Eric Burgh (SALT/SAL, COS/CU)	**Far-Ultraviolet Studies of Dust Extinction and Scattering**
1991 – 1998	Dr. Jason McPhate (SSL,Berkeley)	**Carbon Monoxide in Comets**
1990 – 1997	Dr. Patrick Morrissey (GSFC, GALEX/Cal Tech)	**Space Ultraviolet Spectroscopy and Imaging of Jupiter**
1988 – 1995	Dr. Melaquias Martinez (FUSE/JHU, private sector)	**Lyα and Lyβ in the Night Airglow Using the Faint-Object Telescope and the Hopkins Ultraviolet Telescope**
1988 – 1992	Dr. David Sahnow (FUSE/JHU, COS/STScI)	**Ultraviolet Spectroscopy of Comet Austin (1989c$_1$) Using a Two-Dimensional Diode Array Detector**

Sounding Rocket Missions

19	2024	36.384UG	Globular Cluster M10
18	2019	36.352UG	M33
17	2015	36.312UG	NGC 1365
16	2013	36.296UG	Comet C/2012 S1 (ISON)
15	2013	36.268UG	Starforming galaxy M61
14	2008	36.223UG	Great Nebula in Orion (M42)
13	2007	36.220UG	Trifid Nebula (M20
12	2003	36.208UG	γCas, IC 59 and IC 63
11	2001	36.198UG	Reflection Nebula IC 405
10	2000	36.186UG	Reflection Nebula NGC 2023
9	1999	36.136UG	Planetary Nebula NGC 6853 (M27, the Dumbbell)
8	1997	36.156UG	Comet Hale-Bopp
7	1996	36.115UG	Jovian aurorae
6	1995	36.132UG	30 Dor (from Woomera Australia)
5	1994	36.109UG	G191-B2B (reflight)
4	1992	36.085UG	G191-B2B Far-UV Calibration
3	1990	36.057UG	Io Torus (reflight)
2	1989	36.073UG	Comet Austin 1989c$_1$
1	1988	36.045UG	Io Torus around Jupiter

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Ground-based Observing Programs

2008 – 2012	APO DIS	Project Balmer
2007	Arecibo	HI Mapping of the PN M27
2006	APO DIS and NIC-FPS	Optical and IR Mapping of M27
1999, 2001, 2009	APO Echelle	M Giants and Symbiotics
1987	KPNO Fiber Optic Echelle	Wolf-Rayet and O-stars
1987	Sommers-Bausch B&L	Wolf-Rayet and O-stars

JHU/GSFC Grant History – Total awards **$26.2M** since 1994

Space Instrumentation Grants

2023 – 2025	NASA/ APRA	$2.59M	PI	**Rocket and Laboratory Experiments in Astrophysics – Off Axis FORTIS**
2022	NASA/ APRA	$489 K	PI	**Rocket and Laboratory Experiments in Astrophysics – Off Axis FORTIS and the Initiation of FLyT**
2016 – 2021	NASA/ APRA	$4.40M	PI w/ GSFC CoI	**Rocket and Laboratory Experiments in Astrophysics – Validation and Verification of the Next Generation FORTIS**
2013 – 2016	NASA/ APRA	$792 K	PI	**Target of Opportunity – Far-UV Observations of Comet ISON with FORTIS**
2011 – 2015	NASA/ APRA	$3.21M	PI w/ GSFC CoI	**Rocket and Laboratory Studies in Astronomy with FORTIS**
2008 – 2011	NASA/ APRA	$1.62M	PI	**Rocket and Laboratory Experiments in Astronomy – Quantifying the Gas-to Dust Ratio and Lyα Escape Fraction with FORTIS**
2004 – 2008	NASA/ APRA	$1.83M	PI	**Rocket and Laboratory Experiments in Astronomy – FORTIS: Pathfinder to the Lyman Continuum**
1996 – 2005	NASA/ APRA	$468K	PI	**FUV Windowless Lamps**
2022 – 2025	NASA/ SAT	$56K	CoI w/ GSFC	**Advanced Al mirrors with passivated LiF for environmentally stable 1-meter class UV space telescopes**
2022 – 2025	NASA/ SAT	$259K	Co-I w/ PSU	**Ultraviolet Spectroscopy for the Next Decade Enabled Through Nanofabrication Techniques**
2019 – 2022	NASA/ APRA	$56K	Co-I w/ CU	**ARTEMIS: A dedicated tool for studying feedback from massive stars**
2019 – 2021	NASA/ SAT	$193K	Co-I w/ CU	**Electron Beam Lithography Ruled Gratings for Future Ultraviolet/Optical Missions: High-Efficiency and Low Scatter in the Vacuum Ultraviolet**
2019 – 2021	NASA/ SAT	$260K	Co-I w/ GSFC	**Scalable micro-shutter systems for UV, visible, and infrared spectroscopy**
2015– 2017	NASA/ APRA	$618K	Co-I w/ GSFC	**Advanced Microshutters for UV and Visible Astronomy from Space**
2008– 2013	NASA/ APRA	$3.36M	Co-I	**Rocket and Laboratory Experiments in Astrophysics – ACCESS: Absolute Color Calibration for Standard Stars**
2007– 2008	DOE	$199K	Co-I	**Calibration Monitor for Dark Energy Experiments**
2000– 2004	NASA/ SARA	$1.73M	Co-I	**Rocket and Laboratory Experiments in Astronomy – LIDOS**

2000–2001	NASA/ NGST	$170K	Co-I	**Comparative NIR Detector Characterization for NGST**
1997–2000	NASA	$1.66M	Co-I	**Rocket and Laboratory Experiments in Astronomy**
1994–1996	NASA/ JPL	$63.5K	Co-I	**UV/Visible CCD Development**
2011–2014	NASA/ APRA	$503K	Co-I GSFC	**Next Generation Microshutter Arrays**

Space Observation Grants

2023–2024	HST	$35K	PI	**Establishing the Geometry of Lyman Continuum Escape**
2016–2019	HST	$71K	PI	**SDSSCGB-46589.1 -- a Lyman Alpha Blob at Low Redshift?**
2014–2016	HST	$114K	PI	**High Efficiency SNAP Survey for Lyman Alpha Emitters at Low Redshift**
2012–2013	HST	$53K	PI	**COS G140L CENWAV =800, a gapless low astigmatism mode for observations to the Lyman Limit**
2008–2009	HST	$90K	PI	**Searching for Lyα Emission from FUSE Lyman Continuum Candidates**
2006–2008	Spitzer	$66K	PI	**A Comparison of the Infrared and Ultraviolet Properties of Photodissociation Regions**
2006–2008	FUSE	$31K	PI	**Search for Continuum Emission from Bright Non-Zero Redshift Objects in the Sloan/GALEX Merged Catalog**
2005–2008	Spitzer	$23K	PI	**A Mid and Far-Infrared Study of IC 405: PAH and Dust Emission**
2004–2005	FUSE	$36K	PI	**Far-UV H_2 Emission in Planetary Nebulae**
2003–2004	FUSE	$39K	PI	**Searching for Far Ultraviolet Fluorescence of Molecular Hydrogen in NGC 2023**
2003–2005	FUSE	$30K	PI	**Fluorescent Molecular Hydrogen in IC 405 and NGC 7023 – The Role of Environment**
2023-2024	HST	$57K	Co-I	**The Lyman-alpha and Continuum Origins Survey (LaCOS**
2019–2022	HST	$38K	CO-I	**The Low-Redshift Lyman Continuum Survey**
2012–2013	HST	$25K	Co-I	**Do Lyman-alpha photons escape from star-forming galaxies through dust-holes?**
2009–2011	HST	$18K	Co-I (adm-PI)	**EG And: Providing the Missing Link Required for Modelling Red Giant Mass-loss**
2007–2009	FUSE	$9K	Co-I (adm-PI)	**Understanding Mass-loss in Cool Giants: The Wind of SY MUS**
2005–2007	FUSE	$18K	Co-I (adm-PI)	**A FUV Survey of Extragalactic Symbiotic Binary Stars**
2005–2006	FUSE	$12K	Co-I (adm-PI)	**Symbiotic Binary Stars: Probing the Winds of Cool Giants**
2005–	FUSE	$22K	Co-I	**Astro-Tomography of Symbiotic Binaries**

2006			(adm-PI)	
2002–2004	HST	$40K	Co-I (adm-PI)	**UV Sounding of the M-Giant Atmosphere in the Symbiotic Binary EG-AND**
2001–2002	FUSE	$53K	Co-I (adm-PI)	**Symbiotic Binaries for Wind Studies**
2000–2001	FUSE	$41K	Co-I (adm-PI)	**Emission and Absorption Line Studies of Symbiotic Binaries: Mass Loss and Shock Diagnostics**

Contacts

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Publications

In Press

Flury, S. R., A. E. Jaskot, A. Saldana-Lopez, M. S. Oey, J. Chisholm, R. Amorín, O. Bait, S. Borthakur, C. Carr, H. C. Ferguson, M. Giavalisco, M. Hayes, T. Heckman, A. Henry, Z. Ji, L. Komarova, F. Leclercq, A. Le Reste, S. McCandliss, R. Marques-Chaves, G. Östlin, L. Pentericci, S. Ravindranath, M. Rutkowski, C. Scarlata, D. Schaerer, T. Thuan, M. Trebitsch, E. Vanzella, A. Verhamme, B. Wang, G. Worseck, & X. Xu 2024, The Low-Redshift Lyman Continuum Survey: The Roles of Stellar Feedback and ISM Geometry in LyC Escape, arXiv e-prints, arXiv:2409.12118

Tuttle, S., M. Matsumura, D. R. Ardila, P. Chen, M. Davis, C. Ertley, E. Farr, B. Fleming, K. France, C. Froning, F. Grisé, E. Hamden, J. Hennessy, K. Hoadley, **S. R. McCandliss**, D. M. Miles, S. Nikzad, M. Quijada, I. Ravi, L. Rodriguez de Marcos, P. Scowen, O. Siegmund, C. J. Vargas, D. Vorobiev, & E. M. Witt 2024, Ultraviolet Technology To Prepare For The Habitable Worlds Observatory, arXiv e-prints, arXiv:2408.07242

Refereed Journals

France, K., J. Tumlinson, B. Fleming, M. Gennaro, E. Hamden, **S. R. McCandliss**, P. Scowen, E. Shkolnik, S. Tuttle, C. J. Vargas, & A. Youngblood 2024, SmallSat Technology Accelerated Maturation Platform-1: a proposal to advance ultraviolet science, workforce, and technology for the Habitable Worlds Observatory, JATIS, 10, 034004

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Welch, B., D. Coe, E. Zackrisson, S. E. de Mink, S. Ravindranath, J. Anderson, G. Brammer, L. Bradley, J. Yoon, P. Kelly, J. M. Diego, R. Windhorst, A. Zitrin, P. Dimauro, Y. Jiménez-Teja, Abdurro'uf, M. Nonino, A. Acebron, F. Andrade-Santos, R. J. Avila, M. B. Bayliss, A. Benítez, T. Broadhurst, R. Bhatawdekar, M. Bradač, G. B. Caminha, W. Chen, J. Eldridge, E. Farag, M. Florian, B. Frye, S. Fujimoto, S. Gomez, A. Henry, T. Y.-Y. Hsiao, T. A. Hutchison, B. L. James, M. Joyce, I. Jung, G. Khullar, R. L. Larson, G. Mahler, N. Mandelker, **S. McCandliss**, T. Morishita, R. Newshore, C. Norman, K. O'Connor, P. A. Oesch, M. Oguri, M. Ouchi, M. Postman, J. R. Rigby, R. E. Ryan, S.

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Sharma, K. Sharon, V. Strait, L.-G. Strolger, F. X. Timmes, S. Toft, M. Trenti, E. Vanzella, & A. Vikaeus 2022, JWST Imaging of Earendel, the Extremely Magnified Star at Redshift z = 6.2, ApJL, 940, L1

Hsiao, T. Y.-Y., D. Coe, Abdurro'uf, L. Whitler, I. Jung, G. Khullar, A. K. Meena, P. Dayal, K. S. S. Barrow, L. Santos-Olmsted, A. Casselman, E. Vanzella, M. Nonino, Y. Jimenez-Teja, M. Oguri, D. P. Stark, L. J. Furtak, A. Zitrin, A. Adamo, G. Brammer, L. Bradley, J. M. Diego, E. Zackrisson, S. L. Finkelstein, R. A. Windhorst, R. Bhatawdekar, T. A. Hutchison, T. Broadhurst, P. Dimauro, F. Andrade-Santos, J. J. Eldridge, A. Acebron, R. J. Avila, M. B. Bayliss, A. Benitez, C. Binggeli, P. Bolan, M. Bradac, A. C. Carnall, C. J. Conselice, M. Donahue, B. Frye, S. Fujimoto, A. Henry, B. L. James, S. Kassin, L. Kewley, R. L. Larson, T. Lauer, D. Law, G. Mahler, R. Mainali, **S. McCandliss**, D. Nicholls, N. Pirzkal, M. Postman, J. R. Rigby, R. Ryan, P. Senchyna, K. Sharon, I. Shimizu, V. Strait, M. Tang, M. Trenti, A. Vikaeus, & B. Welch 2023, JWST reveals a possible $z \sim 11$ galaxy merger in triply-lensed MACS0647$-$JD, ApJL, 949, L34

Kruczek, N., D. M. Miles, B. Fleming, R. McEntaffer, K. France, F. Grisé, & **S. McCandliss** 2022, High efficiency echelle gratings for the far ultraviolet, Applied Optics, 61, 6430

Xu, X., A. Henry, T. Heckman, J. Chisholm, G. Worseck, M. Gronke, A. Jaskot, **S. R. McCandliss**, S. R. Flury, M. Giavalisco, Z. Ji, R. O. Amorín, D. A. Berg, S. Borthakur, N. Bouche, C. Carr, D. K. Erb, H. Ferguson, T. Garel, M. Hayes, K. Makan, R. Marques-Chaves, M. Rutkowski, G. Östlin, M. Rafelski, A. Saldana-Lopez, C. Scarlata, D. Schaerer, M. Trebitsch, C. Tremonti, A. Verhamme, & B. Wang 2022, Tracing Lyα and LyC Escape in Galaxies with Mg II Emission, ApJ, 933, 202

Marques-Chaves, R., D. Schaerer, R. O. Amorín, H. Atek, S. Borthakur, J. Chisholm, V. Fernández, S. R. Flury, M. Giavalisco, A. Grazian, M. J. Hayes, T. M. Heckman, A. Henry, Y. I. Izotov, A. E. Jaskot, Z. Ji, **S. R. McCandliss**, M. S. Oey, G. Östlin, S. Ravindranath, M. J. Rutkowski, A. Saldana-Lopez, H. Teplitz, T. X. Thuan, A. Verhamme, B. Wang, G. Worseck, & X. Xu 2022, No correlation of the Lyman continuum escape fraction with spectral hardness, A&A, 663, L1

Saldana-Lopez, A., D. Schaerer, J. Chisholm, S. R. Flury, A. E. Jaskot, G. Worseck, K. Makan, S. Gazagnes, V. Mauerhofer, A. Verhamme, R. O. Amorín, H. C. Ferguson, M. Giavalisco, A. Grazian, M. J. Hayes, T. M. Heckman, A. Henry, Z. Ji, R. Marques-Chaves, **S. R. McCandliss**, M. S. Oey, G. Östlin, L. Pentericci, T. X. Thuan, M. Trebitsch, E. Vanzella, & X. Xu 2022, The Low-Redshift Lyman Continuum Survey. Unveiling the ISM properties of low-z Lyman-continuum emitters, A&A, 663, A59

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