

CHELSEA ELECTRA SHARON
CURRICULUM VITÆ

Yale-NUS College
Physical Sciences
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PROFESSIONAL APPOINTMENTS

Assistant Professor Yale-NUS College Singapore	August 2018–present
Visiting Assistant Professor One semester faculty exchange program with Amherst College Amherst, MA	January–May 2022
William & Caroline Herschel Postdoctoral Fellow McMaster University Hamilton, ON	August 2016–July 2018
Postdoctoral Research Associate Cornell University Ithaca, NY	July 2013–August 2016

EDUCATION

Rutgers, the State University of New Jersey New Brunswick, NJ Dissertation: <i>Molecular Gas in Dusty High-z Galaxies</i>	Ph.D. in Physics	May 2013
California Institute of Technology Pasadena, CA Senior Thesis: <i>The 1 μm Spectra of FU Ori Type Stars</i>	B.S. in Astrophysics	June 2007

AWARDS & GRANTS

Early Career Teaching Award For pre-tenure faculty at Yale-NUS	Yale-NUS	January 2022
Ministry of Education Tier 2 Grant \$600k SGD research grant	Yale-NUS	September 2021
Yale-NUS Special Pocket Research Grant ×3 \$1,185, \$600, & \$1500 for student research over semester breaks	Yale-NUS	May 2021, December 2020
Yale-NUS Teaching Innovation Grant \$4.5k SGD to enable remote instruction with tablet computers	Yale-NUS	June 2020
NUS Resilience & Growth Initiative Traineeship Programme \$30k SGD for hiring recent graduates during COVID	Yale-NUS	May 2020
Yale-NUS Internal Seed Grant \$160k SGD research grant	Yale-NUS	August 2019
JY Pillay Global Asia Grant \$25k SGD workshop grant; Yale-NUS administered	Yale-NUS	August 2019

ALMA Ambassadors \$10k USD research grant; ALMA Cycle 5 Workshop host training National Radio Astronomy Observatory	McMaster	Spring 2017
International Travel Grant for IAU General Assembly American Astronomical Society	Cornell	August 2015
American Fellowship \$20k USD stipend American Association of University Women	Rutgers	AY2012/2013
Government Assistance in Areas of National Need Fellowship National Science Foundation	Rutgers	AY2011/2012, AY2007/2008
Richard J. Plano Outstanding Teaching Assistant Award	Rutgers	August 2010

REFEREED PUBLICATIONS

25. *The Unistellar Exoplanet Campaign: Citizen Science Results and Inherent Education Opportunities*
D. Peluso, 10 others, & **Unistellar Citizen Scientists**
[2023, Publications of the Astronomical Society of the Pacific, 135, 015001](#)
24. *A ~ 600 pc view of the strongly-lensed, massive main sequence galaxy J0901: a baryon-dominated, thick, turbulent, rotating disk with a clumpy cold gas ring at $z = 2.259$*
D. Liu, N. M. Förster Schreiber, R. Genzel, D. Lutz, S. H. Price, L. Lee, A. J. Baker, A. Burkert, R. T. Coogan, R. I. Davies, R. L. Davies, R. Herrera-Camus, T. Kodama, M. M., Lee, A. Nestor, C. Pulsoni, A. Renzini, **C. E. Sharon**, T. T. Shimizu, L. J. Tacconi, K. Tadaki, & H. Übler
[2023, The Astrophysical Journal, 942, 98; arXiv:2211.08488](#)
23. *A 16 Hour Transit of Kepler-167e Observed by the Ground-based Unistellar Telescope Network*
A. Perrocheau, 4 others, & **Unistellar Citizen Scientists**
[2022, The Astrophysical Journal Letters, 940, 39; arXiv:2211.01532](#)
22. *Identifying AGN host galaxies with convolutional neural networks*
Z. Guo (Yale-NUS student), J. Wu, & **C. E. Sharon**
2022, Machine Learning and the Physical Sciences Workshop—Neural Information Processing Systems 2022
<https://arxiv.org/abs/2212.07881> (refereed conference proceedings; typical for computer science fields)
21. *Red quasars blow out molecular gas from galaxies during the peak of cosmic star formation*
H. R. Stacey, T. Costa, J. P. McKean, **C. E. Sharon**, G. Calisto-Rivera, E. Glikman, & P. P. van der Werf
[2022, Monthly Notices of the Royal Astronomical Society, 517 3377; arXiv:2207.09484](#)
20. *COLDz: Probing Cosmic Star Formation With Radio Free-free Emission*
H. S. B. Algera, J. A. Hodge, D. A. Riechers, S. K. Leslie, I. Smail, M. Aravena, E. da Cunha, E. Daddi, R. Decarli, M. Dickinson, H. B. Gim, B. Magnelli, E. J. Murphy, R. Pavesi, M. Sargent, **C. E. Sharon**, J. Wagg, F. Walter, & M. Yun
[2022, The Astrophysical Journal, 924, 76; arXiv:2111.01153](#)
19. *COLDz: Deep 34 GHz Continuum Observations and Free-free Emission in High-redshift Star-forming Galaxies*
H. S. B. Algera, J. A. Hodge, D. Riechers, E. J. Murphy, R. Pavesi, M. Aravena, E. Daddi, R. Decarli, M. Dickinson, M. Sargent, **C. E. Sharon**, & J. Wagg
[2021, The Astrophysical Journal, 912, 73; arXiv:2012.08499](#)
18. *Turbulent Gas in Lensed Planck-Selected Starbursts at $z \sim 1-3$*
K. C. Harrington, A. Weiß, M. S. Yun, B. Magnelli, **C. E. Sharon**, T. K. D. Leung, A. Vishwas, Q. D. Wang, E. F. Jiménez-Andrade, D. T. Frayer, D. Liu, P. Garcia, E. Romano-Díaz, B. L. Frye, S. Jarugula, F. Bertoldi, T. Bădescu, D. Berman, H. Dannerbauer, T. Díaz Sánchez, L. Grassitelli, P. Kamieneski, W. J. Kim, A. Kirkpatrick, J. D. Lowenthal, H. Messias, J. Puschign, G. J. Stacey, & P. Torne
[2021, The Astrophysical Journal, 908, 95; arXiv:2010.16231](#)

17. *COLDz: A High Space Density of Massive Dusty Starbursts Galaxies ~ 1 Billion Years After the Big Bang*
D. A. Riechers, J. A. Hodge, R. Pavesi, E. Daddi, R. Decarli, R. J. Ivison, **C. E. Sharon**, F. Walter, M. Aravena, P. L. Capak, C. L. Carilli, P. Cox, E. da Cunha, H. Dannerbauer, M. Dickinson, R. Neri, & J. Wagg
2020, *The Astrophysical Journal*, 895, 81; [arXiv:2004.10204](#)
16. *Resolved Molecular Gas and Star Formation Properties of the Strongly Lensed $z = 2.26$ Galaxy SDSS J0901+1814*
C. E. Sharon, A. S. Tagore, A. J. Baker, J. Rivera, C. R. Keeton, D. Lutz, R. Genzel, D. J. Wilner, E. K. S. Hicks, S. S. Allam, & D. L. Tucker
2019, *The Astrophysical Journal*, 879, 52; [arXiv:1905.09845](#)
15. *CO Emission in Infrared-Selected Active Galactic Nuclei*
A. Kirkpatrick, **C. E. Sharon**, E. Keller, & A. Pope
2019, *The Astrophysical Journal*, 879, 41; [arXiv:1905.06961](#)
14. *COLDz: Shape of the CO Luminosity Function at High Redshift and the Cold Gas History of the Universe*
D. A. Riechers, R. Pavesi, **C. E. Sharon**, J. A. Hodge, R. Decarli, F. Walter, C. L. Carilli, M. Aravena, E. da Cunha, E. Daddi, M. Dickinson, I. Smail, P. L. Capak, R. J. Ivison, M. Sargent, N. Scoville, & J. Wagg
2019, *The Astrophysical Journal*, 872, 7; [arXiv:1808.04371](#)
13. *The CO Luminosity Density at High- z (COLDz) Survey: A Sensitive, Large Area Blind Search for Low- J CO Emission from Cold Gas in the Early Universe with the Karl G. Jansky Very Large Array*
R. Pavesi, **C. E. Sharon**, D. Riechers, J. Hodge, R. Decarli, F. Walter, C. Carilli, E. Daddi, I. Smail, M. Dickinson, R. Ivison, M. Sargent, E. da Cunha, M. Aravena, J. Darling, V. Smolčić, N. Scoville, P. Capak, & J. Wagg
2018, *The Astrophysical Journal*, 864, 49; [arXiv:1808.04372](#)
12. *Hidden In Plain Sight: A Massive, Dusty Starburst in A Galaxy Protocluster at $z=5.7$ in the COSMOS Field*
R. Pavesi, D. A. Riechers, **C. E. Sharon**, V. Smolčić, A. L. Faisst, E. Schinnerer, C. L. Carilli, P. L. Capak, N. Scoville, & G. J. Stacey
2018, *The Astrophysical Journal*, 861, 43; [arXiv:1803.08048](#)
11. *CO-Free Star Formation and Black Hole Activity in 3C 368 at $z = 1.131$: Coeval Growth of Stellar and Supermassive Black Hole Masses*
C. Lamarche, G. J. Stacey, D. Brisbin, C. Ferkinhoff, S. Hailey-Dunsheath, T. Nikola, D. Riechers, **C. E. Sharon**, H. Spoon, & A. Vishwas
2017, *The Astrophysical Journal*, 836, 123; [arXiv:1701.03736](#)
10. *ALMA Reveals Weak [NII] Emission in “Typical” Galaxies and Intense Starbursts at $z = 5-6$*
R. Pavesi, D. Riechers, P. Capak, C. Carilli, **C. E. Sharon**, G. J. Stacey, A. Karim, N. Scoville, & V. Smolčić
2016, *The Astrophysical Journal*, 832, 151; [arXiv:1607.02520](#)
9. *A Total Molecular Gas Mass Census in $z \sim 2-3$ Star-forming Galaxies: Low- J CO Excitation Probes of Galaxies’ Evolutionary States*
C. E. Sharon, D. Riechers, J. Hodge, C. L. Carilli, F. Walter, A. Weiß, K. K. Knudsen, & J. Wagg
2016, *The Astrophysical Journal*, 827, 18; [arXiv:1606.02309](#)
8. *COLDz: Karl G. Jansky Very Large Array discovery of a gas-rich galaxy in COSMOS*
L. Lentati, J. Wagg, C. L. Carilli, D. Riechers, P. Capak, F. Walter, M. Aravena, E. da Cunha, J. A. Hodge, R. J. Ivison, I. Smail, **C. E. Sharon**, E. Daddi, R. Decarli, M. Dickinson, M. Sargent, N. Scoville, & V. Smolčić
2015, *The Astrophysical Journal*, 800, 67; [arXiv:1412.1262](#)
7. *Excitation Conditions in the Multi-component Submillimeter Galaxy SMM J00266+1708*
C. E. Sharon, A. J. Baker, A. I. Harris, L. J. Tacconi, D. Lutz, & S. N. Longmore
2015, *The Astrophysical Journal*, 798, 133; [arXiv:1411.0700](#)
6. *Very Large Array Mapping of the CO(1-0) Line in SMM J14011+0252*
C. E. Sharon, A. J. Baker, A. I. Harris, & A. P. Thomson
2013, *The Astrophysical Journal*, 765, 6; [arXiv:1212.5955](#)

5. *JVLA imaging of $^{12}\text{CO } J = 1 - 0$ and free-free emission in lensed submillimetre galaxies*
A. P. Thomson, R. J. Ivison, I. Smail, A. M. Swinbank, A. Weiß, J. P. Kneib, P. P. Papadopoulos,
A. J. Baker, **C. E. Sharon**, & G. A. van Moorsel
2012, *Monthly Notices of the Royal Astronomical Society*, 425, 2203; [arXiv:1207.0492](#)
4. *CO($J \rightarrow 1 - 0$) in $z > 2$ Quasar Host Galaxies: No Evidence for Extended Molecular Gas Reservoirs*
D. A. Riechers, C. L. Carilli, R. J. Maddalena, J. Hodge, A. I. Harris, A. J. Baker, F. Walter,
J. Wagg, P. A. Vanden Bout, A. Weiß, & **C. E. Sharon**
2011, *The Astrophysical Journal*, 739, L32; [arXiv:1106.2553](#)
3. *CO $J=1-0$ Spectroscopy of Four Submillimeter Galaxies with the Zpectrometer on the Green Bank Telescope*
A. I. Harris, A. J. Baker, S. G. Zonak, **C. E. Sharon**, R. Genzel, K. Rauch, G. Watts, & R. Creager
2010, *The Astrophysical Journal*, 723, 1139; [arXiv:1006.3691](#)
2. *F, G, K, M Spectral Standards in the Y Band (0.95-1.11 μm)*
C. E. Sharon, L. Hillenbrand, W. Fischer, & S. Edwards
2010, *The Astronomical Journal*, 139, 646; [arXiv:0911.1992](#)
1. *The X-ray Luminosity Function of AGN at $z \sim 3$*
J. Aird, K. Nandra, A. Georgakakis, E. S. Laird, C. C. Steidel, & **C. E. Sharon**
2008, *Monthly Notices of the Royal Astronomical Society*, 387, 883; [arXiv:0804.0760](#)

APPROVED OBSERVING PROPOSALS AS PI

Atacama Large Millimeter/submillimeter Array: Cycle 7, Cycle 5, Cycle 2

IRAM Northern Extended Millimeter Array (formerly Plateau de Bure Interferometer): Winter 2019 (not observed), Winter 2017 (not observed), Summer 2017 \times 2, Winter 2010, Winter 2009

Karl G. Jansky Very Large Array: 2022A, 2020 COVID-19 DDT (not observed), 2020A, 2019B, 2018A \times 3, 2017A, 2016A, 2015B \times 3, 2014B, 2013B, 2013A, 2012A \times 2, 2010C \times 2, 2010B, 2009B

Submillimeter Array: 2010A

SCIENTIFIC PRESENTATIONS

Seminars:

Physics & Astronomy Colloquium	Amherst College	March 2022
Physics Colloquium	Nanyang Technological University	September 2021
YCAA Seminar	Yale University	April 2018
Astronomy Seminar	University of Massachusetts, Amherst	October 2017
Galaxies & Cosmology Seminar	Harvard Center for Astrophysics	October 2017
Radio Astronomy Lab Seminar	University of California Berkeley	September 2015
Friday Lunch Astrophysics Seminar	University of California Santa Cruz	September 2015
Astronomy Seminar	Universidad Diego Portales	March 2015
Astronomy Seminar	Pontificia Universidad Católica de Chile	March 2015
TUNA Lunch Talk	NRAO/University of Virginia	December 2012
Astronomy Seminar	McGill University	November 2012
Astronomy Seminar	Rice University	February 2012

Conference Talks:

IAU Symposium 377: Early Disk-Galaxy Formation from JWST to the Milky Way	Kuala Lumpur, Malaysia	February 2023
(Invited Plenary) Institute of Physics, Singapore	Singapore	September 2022
IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies	Busan, South Korea	August 2022
235th Meeting of the American Astronomical Society	Honolulu, Hawaii	January 2020
11th South East Asian Astronomy Network Meeting	Singapore	December 2019
IAU Symposium 352: Uncovering early galaxy evolution in the ALMA and JWST era	Viana do Castelo, Portugal	June 2019
The Life and Death of Star-forming Galaxies	Perth, Australia	March 2019
231st Meeting of the American Astronomical Society	Washington, D.C.	January 2018
The origin of galaxies, stars, and planets in the era of ALMA	Pasadena, California	November 2017
(Invited) Star Formation in Different Environments: From Local Clouds to Distant Galaxies	Quey Nhon, Vietnam	August 2017
Twenty Years of Submillimeter Galaxies	Durham, UK	July 2017
Measuring Star Formation in the Radio, Millimeter, and Submillimeter	Manchester, UK	July 2017
Developing the ngVLA Science Program	Socorro, New Mexico	June 2017
Half A Decade of ALMA: Cosmic Dawns Transformed	Indian Wells, California	September 2016
Molecular Gas in Galactic Environments	Charlottesville, Virginia	April 2016
227th Meeting of the American Astronomical Society	Kissimmee, Florida	January 2016
Dissecting Galaxies Near and Far: High Resolution Views of Star Formation and the ISM	Santiago, Chile	March 2015
Transformational Science in the ALMA Era: Multi-Wavelength Studies of Galaxy Evolution	Charlottesville, Virginia	August 2014
Gas and Stars in Galaxies: A Multi-wavelength 3D Perspective	Garching, Germany	March 2014
221st Meeting of the American Astronomical Society (Dissertation Talk)	Long Beach, California	January 2013
The Interstellar Medium in High Redshift Galaxies Come of Age	Charlottesville, Virginia	September 2012
Molecules in Galaxies	Oxford, UK	July 2010
Posters:		
241st Meeting of the American Astronomical Society	Seattle, Washington	January 2023
ALMA2019: Science Results & Cross-Facility Synergies	Cagliari, Italy	October 2019
49th Annual Meeting of the Canadian Astronomical Society	Victoria, British Columbia	May 2018

IAU Symposium 315: From Interstellar Clouds to Star Forming Galaxies: Universal Processes?	Honolulu, Hawaii	August 2015
IAU Symposium 319: Galaxies at High- <i>z</i> and Their Evolution Over Cosmic Time	Honolulu, Hawaii	August 2015
Unveiling the AGN-Galaxy Evolution Connection	Puerto Varas, Chile	March 2015
IAU Symposium 292: Molecular Gas, Dust, and Star Formation in Galaxies	Beijing, China	August 2012
The Baryon Cycle	Irvine, California	June 2012
Tri-State Astronomy Conference	New York, New York	October 2011
215th Meeting of the American Astronomical Society	Washington, D.C.	January 2010
5th NAIC/NRAO Single-Dish Summer School	Arecibo, Puerto Rico	July 2009

TEACHING

At Yale-NUS:

YSC1213 General Physics AY2022/23, AY2021/22, AY2020/21, AY2019/20, AY2018/19
 One semester introductory calculus-based physics course for majors and some non-majors, covering conservation laws, Newtonian mechanics, electrostatics, and magnetostatics with labs.

YSC1219 Introduction to Black Holes AY2022/23, AY2020/21, AY2019/20, AY2018/19
 Half-semester introductory astronomy course for non-majors covering observational evidence for the existence of black holes with data analysis projects.

YSC2237 Computational Methods in Physical Sciences AY2018/19
 One semester hands-on computational physics course for majors and scientifically inclined non-majors taught using Python to cover topics such as numerical integration, Monte Carlo methods, Fourier methods, and machine learning.

YSC3246 Modern Astrophysics AY2021/22, AY2019/20
 One semester astronomy course for upper-division majors that covers foundational astronomy concepts via projects in research areas including exoplanets, compact objects, galaxy evolution, and cosmology.

YCC1131 Scientific Inquiry 1 AY2020/21 × 2
 First semester of the team-taught science Common Curriculum sequence required for *all* first year students using the theme of evolution to discuss scientific reasoning, philosophy, and methods.

YCC2137 Scientific Inquiry 2 AY2020/21, AY2019/20
 Second semester of the team-taught science Common Curriculum sequence required for *all* second year students using climate change to learn scientific methods related to experimentation, field work, data analysis, and modeling.

At Amherst:

ASTR111 Exploring the Cosmos AY2021/22
 One semester introductory astronomy survey course for non-majors themed on “Death from the Skies!” covering everything from asteroids and aliens to supernovae and the heat death of the Universe using data analysis projects.

ASTR352 Advanced Astrophysics AY2021/22
 One semester astronomy course for upper-division majors covering galaxies and cosmology using hands-on projects.

Elsewhere:

Part-time at McMaster: Sessional Faculty for *Astronomy 2E03: Introduction to Planetary Science* (Winter 2018; Instructor: Prof. Peter Sutherland), Tutorial Leader for *Integrated Science 3A12: Light, the Universe, and Everything* (Winter 2017, 2018; Instructors: Prof. Sarah Symons, Prof. Ralph Pudritz, Prof. Duncan O’Dell)

Teaching Assistant at Rutgers: *Ph115: Extended Analytical Physics I* (Fall 2009, Instructor: Prof. Suzanne Brahmia), *Ph343: Observational Radio Astronomy* (Spring 2009, Instructor: Prof. Andrew Baker)

Guest Lectures: *Astronomy/Origins 2B03: The Big Questions* at McMaster (Fall 2017, Instructor: Prof. Laura Parker), *REU Summer Lecture Series* at Cornell (Summer 2015, 2016), *ASTR 2211: Stars, Galaxies, and Cosmology* at Cornell (Spring 2016, Instructor: Prof. Dominik Riechers), *ASTR 1195: Observational Astronomy* at Cornell (Fall 2014, 2015, Instructor: Prof. Gordon Stacey), *ASTR 3303: Galaxies Across Cosmic Time* at Cornell (Fall 2013, Instructor: Prof. Dominik Riechers), *Ph343: Observational Radio Astronomy* at Rutgers (Spring 2011, Instructor: Prof. Andrew Baker)

Tutoring: *Bunting-Cobb Residence Hall for Women in STEM* at Rutgers (Fall 2010–Spring 2013)

PEDAGOGICAL TRAINING

Yale-NUS Center for Teaching & Learning Workshops: Supporting Students with ADHD (2023), Design Thinking (2021), Rethinking the Syllabus (2021), Leading Effective Discussions (2020), Hybrid Teaching (2020), Teaching Interactive Classes Using Zoom (2020), Rethinking Capstones (2020), Inclusive Assessment (2019), Designing Effective Rubrics (2018), Peer Teaching Evaluation (2018)

American Astronomical Society Workshops: Supporting Your Introductory Astronomy Courses: Integrating Astrobites, Sky & Telescope, and Other Digital and Hands-On Resources into your Courses (2023), AMPLifying Your Majors Courses: From Unpacking to Problem Solving (2020), Teaching Scientific Thought & Practices (2018), Astro 101 Teaching Tools Using Multiwavelength Astronomy Workshop (2018), New Methods for Teaching in the Flipped Classroom Workshop (2018), Center for Astronomy Education’s Tier 1 Teaching Excellence Workshop (2016), Astronomy Ambassadors (public outreach training; 2013)

MacPherson Institute for Leadership, Innovation, and Excellence in Teaching (McMaster University): Education 650: Peer-Evaluated Teaching Experience (2018), Education 751: Principles & Practices of University Teaching (2017), Education 700: Essential Skills in Teaching and Learning II (2017), Education 600: Essential Skills in Teaching and Learning I (2017)

Other: First Workshop for Indigenous Astronomy in the Classroom (University of Toronto, 2017)

ADVISING

Senior Capstone Projects at Yale-NUS:

Bijaya Luitel	AY2022/23	<i>Where is the gas? CO non-detections of dusty Main Sequence galaxies at $z \sim 3$</i>
Guo Ziting	AY2021/22	<i>Using Convolutional Neural Networks for Identifying Active Galactic Nuclei</i>
Tabitha Carter	AY2020/21	<i>Resolving the Schmidt-Kennicutt Relation for an AGN Host Galaxy in the Early Universe</i>
Taavishi Jindel	AY2019/2	<i>A Resolved Spectral Energy Distribution Fitting Tool Adaption for High-Redshift Galaxies</i>

Other Senior Group Members:

Qingxiang Chen	2021–present	Postdoctoral scholar
Reni Chng	2022	Post-Bac research assistant
Taavishi Jindel	2020–2021	Post-Bac research assistant
Riccardo Pavesi	2014–2016	Cornell University Ph.D. student (co-advised with Prof. Dominik Riechers)

Other Undergraduate Research at Yale-NUS: Akanksha Chokshi (2021-22), Joleen Teo Sze Min (2021), Nahian Chowdhury (2021), Trishan Montoya (2021), Sewen Thy (2021), Uladzimir Treihis (2021-22), Koa Zhao Yuan (2021), Aaron Sean Tan Zenjie (2020-21), Bijaya Luitel (2020-21), M. Zirdi Syukur (2020), Alexander Reaves (2019), Reni Chng (2018-19), Taavishi Jindel (2018-19), Kebron Kedebe Gurara (2018-19)

Academic Advising at Yale-NUS: 8 students (AY2022/23), 10 students (AY2021/22), 11 students (AY2020/21), 11 students (AY2019/20), 6 students (AY2018/19)

Undergraduate Research Co-supervised Elsewhere: Renato Mazzei (University of Virginia, Cornell REU, 2016), Sheri Lopez (University of New Mexico, Cornell REU, 2015), Kirsten Hall (University of North Carolina, Rutgers REU/RISE, 2009), Whitney Kropat (University of Washington, Rutgers RISE, 2009)

PROFESSIONAL SERVICE

Referee, Astrophysical Journal, Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society, Nature Astronomy, Astronomy & Astrophysics

Physical Sciences Major Development, co-manager of website (February 2019-present), co-organizer for Physical Sciences Lounge (September 2018-present), developed major requirement flowchart (November 2019), organizer for inaugural major Open House (October 2019), wrote curriculum report for major review (September 2019)

Committee Member , Teaching Award Committee	Yale-NUS	AY2022/23
Committee Member & Sub-committee Chair , Employment Committee & Job Register Monitoring sub-committee	AAS	June 2021–present
Investigator , Student Sexual Misconduct Hearings	Yale-NUS	August 2018–present
Faculty advisor , <i>Ashen Light</i> student astronomy club	Yale-NUS	August 2018–present
Committee Member , Science Common Curriculum Development Task Force (disbanded due to college closure)	Yale-NUS	August 2021
Committee Member , Advisory Committee for International and Professional Experiences	Yale-NUS	October 2019–April 2021
Committee Member , confidential observatory proposal review	McMaster/Yale-NUS	5 cycles
External Reviewer , confidential observatory proposal review	McMaster	1 review
Leader/Organizer , ALMA Ambassadors Cycle 5 Proposal Workshop	McMaster	March 2017
Co-organizer , Galaxy Lunch Seminar	Cornell	AY2013/14
Co-leader , TA Orientation workshop	Rutgers	August 2012
Committee Member , Rutgers South African Large Telescope Time Allocation Committee	Rutgers	July 2011
President , Physics Graduate Student Organization	Rutgers	AY2009/10
Coordinator , Astronomy Journal Club	Rutgers	AY2009/10
Student Representative , Graduate Studies & Life Committee	Rutgers	AY2008/09

PUBLIC OUTREACH

Speaker , Saga Conversation on the US Astronomy Decadal Survey	Yale-NUS	November 2021
Organizer , Eclipse viewing event for Yale-NUS community	Yale-NUS	December 2019
Speaker , <i>Singapore Science Social</i> public talk series	Yale-NUS	November 2019
Interview , <i>Up All Night with Rhod Sharp</i> BBC 5 radio	Yale-NUS	June 2019
Speaker , <i>Stephen Hawking's Favorite Places</i> Singapore debut	Yale-NUS	September 2018

Planetarium Show Host/Designer , W. J. McCallion Planetarium	McMaster	2017
Volunteer , <i>Girls in Science</i> day camp for grade 10 girls	McMaster	April 2017, 2018
Volunteer , <i>4-H Focus for Teens Astronomy Camp</i>	Cornell	July 2014, 2015, 2016
Workshop Leader/Designer , <i>Expanding Your Horizons</i> day camp for middle school girls	Cornell	April 2015, 2016
Invited Speaker , <i>Rutgers Friends of Astronomy</i>	Cornell	October 2015
Speaker , <i>Career Connections</i> elementary school class	Cornell	March 2015
Volunteer , <i>Museum in the Dark</i> youth outreach event	Cornell	October 2013, 2014
Speaker , <i>Cornell Friends of Astronomy</i>	Cornell	August 2014
Assistant/Speaker , <i>Cosmos</i> viewings with expert commentary	Cornell	Spring 2014
Volunteer , <i>Showtime!</i> at the Ithaca Science Center	Cornell	April 2014
Speaker , <i>Nerd Nite</i> Ithaca	Cornell	October 2013
Assistant , Public observing special events	Rutgers	2009–2013
Co-organizer , <i>4-H Science Saturday</i> youth program	Rutgers	April 2012
Volunteer Judge , <i>North Jersey Regional Science Fair</i>	Rutgers	March 2009–2012

PROFESSIONAL MEMBERSHIPS

Institute of Physics Singapore , Lifetime member	since April 2023
International Astronomical Union , Member	May 2021–present
Canadian Astronomical Society , Member	September 2017–2018
American Astronomical Society , Full Member	September 2015–present