

Dr. Matthew A. Taylor

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EDUCATION AND ACADEMIC EMPLOYMENT

| | | |
|-----------|---|------------------|
| Jan. 2022 | Assistant Professor of Astronomy <i>University of Calgary</i> | Calgary, AB |
| Dec. 2019 | National Research Council of Canada Postdoctoral <i>Herzberg Astronomy and Astrophysics Research Centre</i> | Victoria, BC |
| June 2017 | Gemini Science Fellow <i>Gemini Observatory, Northern Operations Center</i> | Hilo, Hawai'i |
| July 2016 | PhD in Astrophysics <i>Pontificia Universidad Católica de Chile</i> Maximum Distinction Dissertation: The Global Globular Cluster System of the Nearby Giant Elliptical Galaxy NGC5128 Advisors: Dr. Thomas H. Puzia, Dr. Steffen Mieske | Santiago, Chile |
| June 2011 | Bachelor of Science in Physics and Astronomy <i>University of Victoria</i> Co-operative Education Distinction | Victoria, Canada |

HONOURS, GRANTS, AND AWARDS

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|-----------|---|-----------------|
| 2024 | CSA Class G&C Research Support Grant (\$49.2k) <i>Canadian Space Agency</i> | Canada |
| 2023 | NSERC Discovery Grant (five-year term; \$152k total) <i>National Science and Engineering Research Council of Canada</i> | Canada |
| 2022 | HST Cycle 29 GO Support Grant (\$50k USD; US Admin PI: M. Valluri) <i>Space Telescope Science Institute</i> | USA |
| 2021 | JWST Cycle 1 Medium GO Support Grant (\$60k CAD) <i>Canadian Space Agency</i> | Canada |
| 2021 | JWST Cycle 1 Medium GO Support Grant (\$250k USD; US Admin PI: M. Valluri) <i>Space Telescope Science Institute</i> | USA |
| 2017 | Postdoctoral Fellowship Grant (\$90k CAD; declined) <i>National Research Council of Canada</i> | Canada |
| 2014–2016 | Student Fellowship <i>European Southern Observatory</i> | Santiago, Chile |
| 2014–2015 | Instructor Becario Senior Doctoral Scholarship <i>Pontificia Universidad Católica de Chile</i> | Santiago, Chile |
| 2013–2014 | Ayudante Becario Junior Doctoral Scholarship <i>Pontificia Universidad Católica de Chile</i> | Santiago, Chile |
| 2012–2013 | Beca de Excelencia para Alumnos Extranjeros Foreign Doctoral Student Scholarship <i>Pontificia Universidad Católica de Chile</i> | Santiago, Chile |

EQUITY, DIVERSITY, AND INCLUSION

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|-------------|---|------------------|
| 2022 - 2025 | University of Calgary EDI Committee Chair | Calgary, Canada |
| Sept. 2021 | National Research Council of Canada Anti-Racism Seminar | Victoria, Canada |
| Nov. 2018 | NOIRLab Unconscious Bias Training | Hilo, USA |

TEACHING AND RESEARCH SUPERVISION

Summary of Supervisory Activities:

| <u>Degree Level</u> | <u>Supervised</u> | <u>Co-Supervised</u> |
|---------------------------|-------------------|----------------------|
| PhD | 1 | |
| Master's | 5 | |
| Undergrad (thesis) | 9 | 2 |
| Undergrad (summer/intern) | 13 | 6 |

Summary of Teaching Activities:

| <u>Term</u> | <u>Course</u> | <u>Course Title</u> | <u>Enrollment</u> |
|-------------|---------------|--|-------------------|
| Winter 2026 | ASPH307 | Introduction to Observational Astrophysics | 50 |
| Fall 2025 | ASPH401 | Galactic Astrophysics | 37 |
| Winter 2025 | ASPH307 | Introduction to Observational Astrophysics | 48 |
| Fall 2024 | ASPH401 | Galactic Astrophysics | 34 |
| Spring 2024 | SCIE507 | Maunakea Observatories Group Study Program | 12 |
| Winter 2024 | ASPH307 | Introduction to Observational Astrophysics | 49 |
| Fall 2023 | ASPH401 | Galactic Astrophysics | 29 |
| Winter 2023 | ASTR209 | Introduction to Astronomy II: The Cosmos | 327 |
| Fall 2022 | ASPH401 | Galactic Astrophysics | 33 |

ACCEPTED PI OBSERVING PROGRAMS

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|-------|---|-------------------------|
| 2022 | "High-resolution ACS/WFC3 Imaging of Compact Stellar Systems in the Virgo Cluster in Support of JWST Cycle 1 Science" (Prog ID: 16882; 5 orbits awarded in HST Cycle 29 using ACS/WFC3) | STScI HST TAC |
| 2021 | "Do Massive Black Holes Come in Small Packages? A Census of Black Holes in Compact Stellar Systems in the Virgo Cluster" (ProgID: 2567; 41.2 hours awarded in JWST Cycle 1 using NIRSpec/IFU) | STScI JWST TAC |
| 2019A | "The Need for Speeds: Using Globular Clusters to Map the Kinematics of NGC5128 and its Surrounding Environment" (6.5 nights awarded in grey/dark time on 2dF/AAOmega/AAT) | Australian National TAC |
| 2018A | "The Need for Speeds: A pilot study to map the velocity field of NGC5128 with ultra-compact dwarf galaxies" (7.5 hours awarded in Band 1 on Gemini South/GMOS) | Gemini Fast Turnaround |
| 2018A | "Dancing in the Dark: GMOS-S imaging of a potential dwarf binary pair" | |

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| | | Gemini National and Fast Turnaround TACs |
| 2016A | (6.2 hours awarded in Bands ½ on Gemini South/GMOS) "Redder is Better: The Survey of Centaurus A's Baryonic Structures - Near-Infrared Supplement" | ESO OPC |
| 2015A | (37.5 hours awarded on VISTA/VIRCam) "The Dark Side of NGC 5128's Globular Cluster System" | ESO OPC |
| 2013/2014B | (13.2 hours awarded on VLT/XSHOOTER) "Compact Stellar Systems in Hickson Compact Groups: A MultiBand Photometric Survey for their Origins" | ESO OPC |
| 2014A | (36.5 hours awarded on VLT/HAWK-I+VIMOS) "Nowhere Left to Hide: SCABS, The Survey of Centaurus A's Baryonic Structures" | Chilean National TAC |
| | (2 nights awarded on Blanco/DECam) | |

OBSERVING AND OBSERVATORY EXPERIENCE

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|------------|---|------------------|
| 2020--2021 | Colloquia Coordinator <i>Helped organize and host visiting speakers to NRC's Herzberg Astronomy and Astrophysics Research Centre</i> | Victoria, Canada |
| 2018--2019 | Queue Observing Coordinator <i>Daily organization and development of nightly queue observing plans</i> | Hilo, USA |
| 2018--2019 | Seminar Coordinator <i>Helped organize and host visiting speakers to Gemini Northern Operations Center</i> | Hilo, USA |
| 2017--2019 | Gemini Fast Turnaround Team Member <i>Support for Gemini Fast Turnaround Observing Mode Program</i> | Hilo, USA |
| 2017--2019 | Gemini North Queue Observer <i>Nighttime queue observing duties at Gemini North</i> | Hilo, USA |
| 2017--2019 | Member Gemini Near-Infrared Support Team <i>Support for Gemini's Near-Infrared Instrumentation</i> | Hilo, USA |
| 2015 | "Near-UV Spectroscopy of Galactic Globular Clusters: Probing the Self-Enrichment Scenario" <i>2 nights on SOAR/Goodman Spectrograph</i> | Cerro Pachón |
| 2015 | "Mapping the Radial Distribution of the Unusual Globular Cluster System of NGC 4365" <i>0.5 night on Magellan (Baade)/Fourstar Imager</i> | Las Campanas |
| 2014 | "SCABS: The Survey of Centaurus A's Baryonic Structures" <i>2 nights on Blanco/DECam</i> | Cerro Tololo |
| 2013 | "Chemodynamical Characterization of Blue Straggler Stars in Galactic Globular Clusters" <i>3 nights on VLT/FLAMES</i> | Cerro Paranal |

SCIENCE COMMUNITY SERVICE AND OUTREACH

- **Professional Association Service**
 - 2025 – Chair of the User Committee for Gemini International Observatory
 - 2024 – Canadian Time Allocation Committee (3 year term)
 - 2023 – elected as Director to CASCA Board of Directors for three-year term
 - 2023 – Research/Colloquium Committee, UCalgary Dept. of Physics & Astronomy
 - 2023 – Lead editor for Milky Way and Nearby Galaxies chapter of the TMT Detailed Science Case update
 - 2022 – invited session chair at the 2022 Gemini Science Meeting
 - 2022 – co-author of Gemini User Committee Recommendation Report

- 2022 – Canadian representative for the Gemini User Committee
- 2022 – Equity, Diversity, and Inclusion Committee Chair, UCalgary Dept. of Physics & Astronomy
- 2022 – Member of the CASTOR Phase 0 Science Working Group
- 2018 – Member of the Maunakea Spectroscopic Explorer International Science Team
- 2017 – Member of the Thirty Meter Telescope International Science Development Team
- 2015 – *Satellites and Streams in Santiago* conference Local Organizing Committee member
- **Media Appearances**
 - 2026 – UToday article and news release on SMBH discoveries
 - Global News Calgary spot, Wed. March 30th
 - Live CBC Calgary radio interview; Homestretch, [link](#)
 - Live CBC Edmonton radio interview; Radio Active, [link](#)
 - 2025
 - Invited full-length interviewee for *The LIUniverse* podcast, [link](#)
 - AAS Nova feature, [link](#)
 - 2024
 - CBC Calgary on-camera media hit, [link](#)
 - QR Calgary Live Radio Interview
 - CBC Calgary’s Eyeopener Live Radio Interview
 - 2023 – CTV Calgary Evening News spot
 - 2022 – CityTV News Calgary radio hit
 - 2015 – Dark Star Clusters (European Southern Observatory Science Release)
 - 2014 – Fornax dwarfs (various online outlets)
- **Editing and Peer Review**
 - Review Editor for *Frontiers in Astronomy and Space Sciences*
 - Reviewer for *Astronomy & Astrophysics*
 - Reviewer for *American Astronomical Society Journals*
 - Reviewer for *Monthly Notices of the Royal Astronomical Society*

Selected Outreach Contributions

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|------------|---|------------------|
| July 2025 | Invited Panelist for “Guide to Applying for Astronomy Postdocs” | Calgary, Canada |
| Sept. 2025 | Rothney Astrophysical Observatory Space Night Public talk on black holes and compact stellar systems for the local Calgary astronomy community | Calgary, Canada |
| Sept. 2023 | Beakerhead “Be and Alien Astronomer” Interactive Exhibit | Calgary, Canada |
| Oct. 2022 | Rothney Astrophysical Observatory Space Night Public talk on the James Webb Space Telescope for the local Calgary astronomy community | Calgary, Canada |
| Aug. 2022 | Mount Royal University Summer Space Camp Astronomy outreach activities and Q&A with kids attending MRU Space Camp | Calgary, Canada |
| July 2022 | SHAD-Carleton Lecture Guest lecture for students participating in SHAD Canada program | Calgary, Canada |
| Nov. 2021 | Local Astronomy James Webb Space Telescope Outreach Talk Presentation on JWST Cycle 1 Science to Friends of the Dominion Astrophysical Observatory | Victoria, Canada |
| Aug. 2021 | Highschool Student Outreach Career and science discussion with grade ten students. | Victoria, Canada |
| Jan. 2021 | Royal Astronomical Society of Canada Public Talk “Judge Me By My Size Do You? Tales of the littlest galaxies that could.” Virtual public outreach talk | Victoria, Canada |
| Dec. 2020 | University of Victoria Astronomy Open House Public Talk “So You Think You Can Galaxy: The Life and Times of the Littlest Star Systems that Could” Virtual public outreach talk | Victoria, Canada |
| May 2019 | Hilo Astroday Community outreach in the Hawaiian community to inspire children and youth to observatory careers. | Hilo, USA |

- Mar. 2018,19 **Journey Through the Universe** Hilo, USA
Community outreach to share astronomy with Hawaiian children through hands-on classroom activities and “ask-me-anything” sessions.
- Dec. 2017 **Astronomy on Tap Public Talk** Hilo, USA
“So You Think You Can Galaxy: Tales of the Littlest Star Systems that Could” public outreach talk
- Nov. 2017 **Kona Astroday** Kona, USA
Community outreach in the Hawaiian community to inspire children and youth to observatory careers.

PUBLICATIONS

Peer Reviewed Journal Articles

(Six first-author papers with 169 citations; 30 co-author papers with 1001 citations; H=16)

- [36] 2026 ***Euclid*: Early Release Observations – The star-formation history of massive early-type galaxies in the Perseus cluster**
Martocchia, S., Boselli, A., Cuillandre, J.-C., et al. (**Taylor, M.A.**, 17 out of 157 authors), *Astronomy and Astrophysics*, 708, 63, [link](#)
- [35] 2026 **The Next Generation Virgo Cluster Survey (NGVS). XXXVI. Caught in the Act of Transformation: Morphological decomposition and classification of Ultra-Compact Dwarf (UCD) galaxies in the Virgo Cluster**
Wang, K., Peng, E.W., Liu, C., Ferrarese, L., Côté, P., Mihos, C.J., **Taylor, M.A.**, Blakeslee, J.P., Cuillandre, J.-C., Duc, P.-A., Guhathakurta, P., Gwyn, S., Ko, Y., Lançon, A., Lim, S., MacArthur, L.A., Puzia, T.H., Roediger, J., Sales, L.V., Sanchez-Janssen, R., Spengler, C., Toloba, E., Zhang, H.-X., & Zhu, M., *The Astrophysical Journal Supplement Series*, *accepted*
- [34] 2026 **AVID: A Near-Major Post-Merger of Late-Type Dwarfs beneath a Regularly Rotating HI Disk (VCC693)**
Li, F., Zhang, H.-X., Brinks, E., Oh, S.-H., Smith, R., Lin, Z., Sun, W., Sun, Y.-Z., Li, T., Kim, M., Kim, J., Chen, L., Zhang, L., Côté, P., Boselli, A., Duc, P.-A., Ferrarese, L., Fossati, M., Gwyn, S., Kong, X., Paudel, S., Peng, E.W., Puzia, T.H., Sánchez-Janssen, R., **Taylor, M.A.**, & Zhao, Y., *Astronomy & Astrophysics*, *accepted*, [link](#)
- [33] 2026 **The Curious Case of Centaurus A II: On the Subject of the Quenched Satellites**
Weerasooriya, S., Bovill, M.S., **Taylor, M.A.**, Benson, A.J., **Leahy, C.**, Vazquez, A., Ahvazi, N., Marcum, P.M., & Borlaff, A.S., *The Astrophysical Journal*, *submitted*, [link](#)
- [32] 2026 **The Next Generation Fornax Survey (NGFS). VIII. A Support Vector Machine Approach for Disentangling Globular Clusters from Other Sources**
Ordenes-Briceño, Y., Puzia, T.H., Eigenthaler, P., Blaña, M., Carvajal, J.P., **Taylor, M.A.**, Miller, B. W., Rahatgaonkar, R., Johnston, E.J., Nayak, P.K., & Galaz, G., *Astronomy & Astrophysics*, 706, 368, [link](#)
- [31] 2025 **JWST Observations of the Double Nucleus in NGC4486B: Possible Evidence for a Recent Binary SMBH Merger and Recoil**
Tahmasebzadeh, B., Valluri, M., Dattathri, S., Akiba, T., Khan, F.M., **Taylor, M.A.**, **Yoshino, H.**, **Thompson, S.**, Madigan, A.-M., van den Bosch, F.C., Holley-Bockelmann, K., Côté, P., Ferrarese, L., Drinkwater, M., Baumgardt, H., Bentz, M.C., Dage, K., Peng, E.W., Jha, S., Maccio, A.V., Liu, C., & Woods, T., 2025, *The Astrophysical Journal*, *accepted*, [link](#)
- [30] 2025 **The Next Generation Virgo Cluster Survey (NGVS). XL. The Morphological Classification of Virgo Cluster Galaxies**
Kurzner, M.M., Côté, P., Ferrarese, L., Wang, K., Peng, E.W., Wilkinson, S., Roediger, J., Spengler, C., Brown, T., Liu, C., Lim, S., Sánchez-Janssen, R., Toloba, E., Guhathakurta, P., Blakeslee, J.P., Durrell, P.R., Lançon, A., Mihos, J.C., **Taylor, M.A.**, Woods, T., **Thompson, S.**, & MacArthur, L.A., 2025, *The Astrophysical Journal*, 170, 363, [link](#)
- [29] 2025 **A Supermassive Black Hole in a Diminutive Ultra-compact Dwarf Galaxy Discovered with JWST/NIRSpec+IFU**

- Taylor, M.A.**, Tahmasebzadeh, B., **Thompson, S.**, Vasiliev, E., Valluri, M., Drinkwater, M., Côté, P., Ferrarese, L., Roediger, J., Baumgardt, H., Bentz, M.C., Dage, K., Peng, E.W., Lapeer, D., Liu, C., **Sumners, Z.**, Wang, K., Baldassare, V., Blakeslee, J.P., Ko, Y., & Woods, T., 2025, *The Astrophysical Journal Letters*, 991, 1, L24, [link](#)
- [28] 2025 **Unveiling the Nature and Fate of the Almost-Dark Cloud AGC226178 Through HI Mapping**
Sun, Y.-Z., Zhang, H.-X., Brinks, E., Smith, R., Li, F., Kim, M., Oh, S.-H., Lin, Z., Kim, J., Li, T., Côté, P., Boselli, A., Chen, L., Duc, P.-A., Paudel, S., **Taylor, M.A.**, Wang, K., Wang, E., Zhang, L., & Zhao, Y., 2025, *Astronomy & Astrophysics*, 701 A73, [link](#)
- [27] 2025 **A JWST View of the Overmassive Black Hole in NGC4486B**
Tahmasebzadeh, B., **Taylor, M.A.**, Valluri, M., **Yoshino, H.**, Vasiliev, E., Drinkwater, M., **Thompson, S.**, Dage, K., Côté, P., Ferrarese, L., Akiba, T., Baldassare, V., Bentz, M.C., Blakeslee, J.P., Baumgardt, H., Ko, Y., Liu, C., Madigan, A.-M., Peng, E.W., Roediger, J., Wang, K., & Woods, T., 2025, *The Astrophysical Journal Letters*, 989, 2, L42, [link](#)
- [26] 2025 **AVID: Formation and Evolution of a Coalesced Major Merger of Late-type Dwarf Galaxies (VCC 479) on the Outskirts of the Virgo Cluster**
Sun, W., Zhang, H.-X., Smith, R., Brinks, E., Côté, P., Oh, S.-H., Lin, Z., Boselli, A., Ferrarese, L., Li, F., Sun, Y., Chen, L., Zhang, L., Kim, M., Kim, J., Li, T., Tao, B., **Taylor, M.A.**, Duc, P.-A., Sánchez-Janssen, R., Zhao, Y., Paudel, S., Peng, E.W., Wang, K., Gwyn, S., Fossati, M., & Cuillandre, J.-C., 2025, *Astronomy & Astrophysics*, 700, A113, [link](#)
- [25] 2025 **The CASTOR Mission**
Côté, P., Woods, T., Hutchings, J., et al. (**Taylor, M.A.** 28 out of 180 authors), *Journal of Astronomical Telescopes, Instruments, and Systems*, vol. 11, issue 4, [link](#)
- [24] 2024 **The Lower Limit of Dynamical Black Hole Masses Detectable in Virgo Compact Stellar Systems Using the JWST/NIRSpec IFU**
Tahmasebzadeh, B., Lapeer, A., Vasiliev, E., Valluri, M., **Taylor, M.A.**, & **Thompson, S.**. *The Astrophysical Journal*, accepted, arxiv.org/abs/2408.02142, [link](#)
- [23] 2024 **Devouring the Centaurus A Satellites: Modeling Dwarf Galaxies with Galacticus**
Weerasooriya, S., Sauda Bovill, M., **Taylor, M.A.**, Benson, A.J., & **Leahy, C.**, *The Astrophysical Journal*, vol. 968, no. 2, 78, [link](#)
- [22] 2023 **An Evolutionary Continuum from Nucleated Dwarf Galaxies to Star Clusters**
Wang, K., Peng, E.W., Liu, C., Mihos, C.J., Côté, P., Ferrarese, L., **Taylor, M.A.**, Blakeslee, J.P., Cuillandre, J.-C., Duc, P.-A., Guhathakurta, P., Gwyn, S., Lançon, A., Lim, S., Puzia, T.H., Roediger, J., Spengler, C., & Zhang, H., *Nature*, vol. 623, no. 7986, 296, [link](#)
- [21] 2021 **Fresh Insights on the Kinematics of M49's Globular Cluster System with MMT/Hectospec Spectroscopy**
Taylor, M.A., Ko, Y., Côté, P., Ferrarese, L., Peng, E.W., Zabludoff, A., Roediger, J., Sánchez-Janssen, Hendel, D., Chilingarian, I., Liu, C., Spengler, C., and Zhang, H.-X. *Astrophysical Journal*, vol. 915, no. 2, 83, [link](#)
- [20] 2020 **The Next Generation Fornax Survey (NGFS): VII. A MUSE view of the nuclear star clusters in Fornax dwarf galaxies**
Johnson, E., Puzia, T.H., D'Ago, G., Eigenthaler, P., Galaz, G., Häußler, B., Mora, M.D., Ordenes-Briceño, Y., Rong, Y., Spengler, C., Vogt, F., Côté, P., Grebel, E., Hilker, M., Mieske, S., Miller, B., Sánchez-Janssen, R., **Taylor, M.A.**, and Zhang, H.-X. *Monthly Notices of the Royal Astronomical Society*, vol. 495, no. 2, 2247, [link](#)
- [19] 2019 **The Next Generation Fornax Survey (NGFS): VI. The Alignment of Dwarf Galaxies in the Fornax Cluster**
Rong, Y., Puzia, T.H., Ordenes-Briceño, Y., Eigenthaler, P., **Taylor, M.A.**, Muñoz, R.P., Zhang, H.-X., Alamo-Martínez, K., Ribbeck, K.X., Grebel, E., Ángel, S., Côté, P., Ferrarese, L., Hilker, M., Lançon, A., Mieske, S., Miller, B., Sánchez-Janssen, R., and Johnston, E.J., *The Astrophysical Journal*, vol. 883, no. 1, 56, [link](#)
- [18] 2019 **The Next Generation Fornax Survey (NGFS): V. Discovery of an isolated dwarf-dwarf galaxy pair at $z=0.30$ and its characterization using deep VLT/MUSE observations**
Johnson, E., Eigenthaler, P., Puzia, T.H., Ordenes-Briceño, Y., **Taylor, M.A.**, Alamo-Martínez, K., Côté, P., Galaz, G., Grebel, E., Hilker, M., Lançon, A., Mieske, S., Sánchez-Janssen, and Rong, Y., *The Astrophysical Journal*, vol. 873, no. 1, 59, [link](#)
- [17] 2019 **How nucleation and luminosity shape faint dwarf galaxies**

- Sánchez-Janssen, R., Puzia, T.H., Ferrarese, L., Côté, P., Eigenthaler, P., Miller, B., Ordenes-Briceño, Y., Peng, E., Ribbeck, K.X., Roediger, J., Spengler, C., and **Taylor, M.A.**, *Monthly Notices of the Royal Astronomical Society Letters*, vol. 486, no. 1, pp. L1-L5, [link](#)
- [16] 2018 **A Collection of New Dwarf Galaxies in NGC5128's Western Halo**
Taylor, M.A., Eigenthaler, P., Puzia, T.H., Muñoz, R.P., Ribbeck, K.X., Zhang, H.-X., Ordenes-Briceño, Y., and Bovill, M.S., *The Astrophysical Journal Letters*, vol. 867, no. 1, L15, [link](#)
- [15] 2018 **The Fornax Cluster VLT Spectroscopic Survey. I – VIMOS spectroscopy of compact stellar systems in the Fornax core region**
Pota, V., Napolitano, N.R., Hilker, M., Spavone, M., Schulz, C., Cantiello, M., Tortora, C., Iodice, E., Paolillo, M., D'Abrusco, R., Capaccioli, M., Puzia, T.H., Peletier, R.F., Romanowsky, A.J., van de Ven, G., Spiniello, C., Norris, M., Lisker, T., Muñoz, R.P., Schipani, P., Eigenthaler, P., **Taylor, M.A.**, Sánchez-Janssen, R., and Ordenes-Briceño, Y., *Monthly Notices of the Royal Astronomical Society*, vol. 481, no. 2, pp. 1744-1756, [link](#)
- [14] 2018 **The GEMS/GSAOI Galactic Globular Cluster Survey (G4CS) I: A pilot study of the stellar populations in NGC2298 and NGC3201**
Monty, S., Puzia, T.H., Miller, B.W., Carrasco, E.R., Simunovic, M., Schirmer, M., Stetson, P.B., Venn, K.A., Dotter, A., Goudfrooij, P., Perina, S., Pessev, P., Sarajedini, A., and **Taylor, M.A.**, *The Astrophysical Journal*, vol. 865, no. 2, pp. 160-183, [link](#)
- [13] 2018 **The Next Generation Fornax Survey (NGFS). IV. Mass and Age Bimodality of Nuclear Star Clusters in the Fornax Core Region**
Ordenes-Briceño, Y., Puzia, T.H., Eigenthaler, P., **Taylor, M.A.**, Muñoz, R.P., Zhang, H., Alamo-Martínez, K., Ribbeck, K.X., Grebel, E.K., Ángel, S., Côté, P., Ferrarese, L., Hilker, M., Lançon, A., Mieske, S., Miller, B., Rong, Y., and Sánchez-Janssen, R. *The Astrophysical Journal*, vol. 860, no. 1, 2018, pp. 4-25, [link](#)
- [12] 2018 **The Next Generation Fornax Survey (NGFS). III. Revealing the spatial substructure of the dwarf galaxy population inside half of Fornax's virial radius**
Ordenes-Briceño, Y., Eigenthaler, P., **Taylor, M.A.**, Puzia, T.H., Alamo-Martínez, K., Ribbeck, K.X., Muñoz, R.P., Zhang, H., Grebel, E.K., Ángel, S., Côté, P., Ferrarese, L., Hilker, M., Lançon, A., Mieske, S., Miller, B., Rong, Y., and Sánchez-Janssen, R. *The Astrophysical Journal*, vol. 859, no. 1, 2018, pp. 52-60, [link](#)
- [11] 2018 **Stellar Population Properties of Ultra-Compact Dwarfs in M87: A mass-metallicity correlation connecting low-metallicity globular clusters and compact ellipticals**
Zhang, H.-X., Puzia, T.H., Peng, E.W., Liu, C., Côté, P., Ferrarese, L., Duc, P.-A., Eigenthaler, P., Lim, S., Lançon, A., Muñoz, R.P., Roediger, J., Sánchez-Janssen, R., **Taylor, M.A.**, and Yu, J., *The Astrophysical Journal*, vol. 858, no. 1, 2018, pp. 37-48, [link](#)
- [10] 2018 **The Next Generation Fornax Survey (NGFS). II. The Central Dwarf Galaxy Population**
Eigenthaler, P., Puzia, T.H., **Taylor, M.A.**, Ordenes-Briceño, Y., Muñoz, R.P., Ribbeck, K.X., Alamo-Martínez, K., Zhang, H., Ángel, S., Capaccioli, M., Côté, P., Ferrarese, L., Galaz, G., Grebel, E.K., Hempel, M., Hilker, M., Lançon, A., Mieske, S., Miller, B., Paolillo, M., Powalka, M., Richtler, T., Roediger, J., Rong, Y., Sánchez-Janssen, R., and Spengler, C., *The Astrophysical Journal*, vol. 855, no. 2, 2018, pp. 142-161, [link](#)
- [9] 2017 **The Extended Baryonic Halo of NGC3923**
Miller, B., Ahumada, T., Puzia, T.H., Candlish, G., McGaugh, S.S., Mihos, C., Sanderson, R., Schirmer, M., Smith, R., & **Taylor, M.A.**, 2017, *Galaxies*, 5, 29, [link](#)
- [8] 2017 **The Survey of Centaurus A's Baryonic Structures (SCABS). II. The Extended Globular Cluster System of NGC5128 and its Nearby Environment**
Taylor, M.A., Puzia, T.H., Muñoz, R.P., Mieske, S., Eigenthaler, P., and Bovill, M.S., *Monthly Notices of the Royal Astronomical Society*, vol. 469, no. 3, 2017, pp. 3444-3467, [link](#)
- [7] 2016 **Faint Dwarf Galaxies in Hickson Compact Group 90**
Ordenes-Briceño Y., **Taylor, M.A.**, Puzia, T.H., Muñoz, R.P., Eigenthaler, P., Georgiev, I.Y., Goudfrooij, P., Hilker, M., Lançon, A., Mamon, G., Mieske, S., Miller, B., Peng, E.W., and Sánchez-Janssen, R., *Monthly Notices of the Royal Astronomical Society*, vol. 463, no. 2, 2016, pp. 1284-1290, [link](#)
- [6] 2016 **The Lost Dwarfs of Centaurus A and the Formation of its Dark Globular Clusters**
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- [11] 2019 **The Gemini Fast Turnaround Program**
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- [10] 2019 **Dwarf Galaxies, Globular Clusters, and Ultra-compact Dwarfs: Getting to know the outer halo of NGC5128**
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- [9] 2019 **A New Reservoir of Dwarf Galaxy Candidates in the Centaurus A Group**
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- [7] 2017 **The Extended Globular Cluster System of NGC3923**
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- [6] 2015 **Forming NGC 5128's High M/L Globular Clusters**
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- [4] 2015 **The Dark Side of SCABS: Predictions for Centaurus A's Baryonic Substructure**
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- [3] 2015 **Evidence for a Dark Side to NGC5128's Globular Cluster System**
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- [1] 2011 **The Scattered Disk and Hot Belt, Two Sides of the Same Coin?**
Kavelaars, J.J., Petit, J.-M., Gladman, B., Jones, R.L., Parker, J., & Taylor, M., 2011, in EPSC-DPS Joint Meeting 2011, pp. 1318

CONFERENCE CONTRIBUTIONS AND INVITED TALKS

(9 invited talks; 8 contributed talks; 12 contributed posters)

- [29] Oct. 2025 **Do Massive Black Holes Come in Small Packages? The Search for Central Black Holes in Low-Mass Stellar Systems**
Invited **talk**: University of Alberta Colloquium
- [28] June 2025 **The Search for Supermassive Black Holes in Surprisingly Small Packages with JWST**
Invited **talk**: American Physical Society Northwest Meeting 2025, Calgary, 26-28 June 2025
- [27] June 2025 **Detour Ahead! A Supermassive Black Hole that Took the Wrong Exit in NGC4486B**
Contributed **talk**: CASCA 2025, Halifax, 2-6 June 2025
- [26] Mar. 2024 **Do Massive Black Holes Come in Small Packages? The Search for Central Black Holes in Low-Mass Stellar Systems**
Invited **talk**: Herzberg Astronomy & Astrophysics Research Centre Colloquium
- [25] June 2023 **Searching for Massive Black Hoels in Compact Stellar Systems with JWST**
Contributed **talk**: CASCA 2023, Penticton, 12-16 June 2023
- [24] Feb. 2023 **Judge Me by My Size, Do You? Decoding giant galaxies using low-mass stellar systems.**
Invited **talk**: University of Calgary, Calgary, AB, Canada, 2 February 2023
- [23] May 2022 **Do Massive Black Holes Come in Small Packages? A census of black holes in compact stellar systems in the Virgo cluster with JWST/NIRSPec**
Contributed **poster**: CASCA 2022, Waterloo (virtual), 16-20 May 2022
- [22] Apr. 2022 **Tracing a Recent Accretion Event onto M49's Halo Through Its Rich Globular Cluster System**
Contributed **poster**: Galaxy Clusters 2022, STScI (virtual), 25-29 April 2022
- [21] Nov. 2021 **Judge Me Not by My Size: The life and times of the littlest star systems that could.**
Invited **talk**: Camosun College, Victoria, Canada, 18 November 2021
- [20] July 2021 **Judge Me Not by My Size: What low-mass stellar systems can do for you.**
Invited **talk (virtual)**: University of Calgary, Calgary, Canada, 15 July 2021
- [19] May 2021 **Do Black Holes Come in Small Packages? The future of black hole observations with the James Webb Space Telescope.**
Contributed **poster**: Tech-X general meeting, *virtual meeting*, 18 May 2021
- [18] May 2021 **A Fresh Look at M49's Globular Cluster System Kinematics with MMT/Hectospec Spectroscopy.**
Contributed **poster**: CASCA annual general meeting, *virtual meeting*, 10-14 May 2020
- [17] April 2021 **A Fresh Look at M49's Globular Cluster System Kinematics with MMT/Hectospec Spectroscopy.**
Invited **talk**: HAA Science Jamboree, *virtual meeting*, April 2021
- [16] May 2020 **Globular Clusters on the Half-shell: a fresh look at the kinematics of M49's globular cluster system.**
Contributed **poster**: CASCA annual general meeting, *virtual meeting*, 25-28 May 2020.
- [15] Jan. 2019 **Dwarf Galaxies, Globular Clusters, and Ultra-compact Dwarfs: Getting to know the outer halo of NGC5128**
Contributed **talk**: AAS 233, Seattle, USA, 6-10 January 2019.
- [14] Dec. 2018 **The Curiously Complex Satellite System of NGC5128**
Contributed **poster**: TMT Science Forum, Pasadena, USA, 9-12 December 2018.
- [13] Aug. 2018 **A Newly Discovered Reservoir of Dwarf Galaxies in the Centaurus A Group**
Contributed **talk**: IAU-GA Symposium 344, Vienna, Austria, 20-24 August 2018.
- [12] May 2018 **Neighbourhood Watch: A survey of baryonic structures in the Local Universe**
Contributed **talk**: CASCA 2018, Victoria, Canada, 22-26 May 2018.
- [11] Sept. 2016 **The Extended Globular Cluster System of NGC5128 and its Nearby Environment**
Invited **talk**: University of Victoria, Victoria, Canada, 22 Sept. 2016.
- [10] Sept. 2016 **The Extended Globular Cluster System of NGC5128 and its Nearby Environment**
Invited **talk**: Herzberg Institute of Astrophysics, Victoria, Canada, 13 Sept. 2016.
- [9] Aug. 2015 **Evidence for a Dark Side to NGC 5128's Globular Cluster System**
Contributed **poster**: *IAUS316: Formation, Evolution, and Survival of Massive Star*

- Clusters*, Honolulu, USA, 11–14 Aug. 2015.
- [8] Aug. 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**
Contributed **poster**: *IAUS317: The General Assembly of Galaxy Halos: Structure, Origin and Evolution*, Honolulu, USA, 3–7 Aug. 2015.
- [7] May 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**
Contributed **talk**: *Multiwavelength Dissection of Galaxies*, Sydney, Australia, 24–29 May 2015.
- [6] Apr. 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**
Contributed **poster**: *Satellites and Streams in Santiago*, Santiago, Chile, 13–17 Apr. 2015.
- [5] Mar. 2015 **Observational Evidence for a Dark Side to Centaurus A's Globular Cluster System**
Contributed **talk**: *Modelling and Observing Dense Stellar Systems 15*, Concepción, Chile, 2–6 Mar. 2015.
- [4] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**
Contributed **poster**: *IAUS311: Galaxy Masses as Constraints of Formation Models*, Oxford, United Kingdom, 21–25 July 2014.
- [3] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**
Contributed **poster**: *IAUS309: Galaxies in 3D Across the Universe*, Vienna, Austria, 7–11 July 2014.
- [2] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**
Contributed **poster**: *Nuclear Clusters in Galaxies, and the Role of the Environment*, Leiden, The Netherlands, 30 June–4 July 2014.
- [1] May 2014 **Observational Evidence for a Bifurcation in the Dynamical Mass Scaling Relations of Compact Stellar Systems in NGC 5128**
Contributed **talk**: *Formation and Evolution of Star Clusters*, Santiago, Chile, 14–16 May 2014.