

# Dr. Matthew A. Taylor

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## EDUCATION AND ACADEMIC EMPLOYMENT

Jan. 2022	<b>University of Calgary</b> <i>Assistant Professor of Astronomy</i>	Calgary, AB
Dec. 2019	<b>Herzberg Astronomy &amp; Astrophysics Research Centre</b> <i>NRC Postdoctoral Fellow</i>	Victoria, BC
June 2017	<b>Gemini Observatory, Northern Operations Center</b> <i>Gemini Science Fellow</i>	Hilo, Hawai'i
July 2016	<b>Pontificia Universidad Católica de Chile</b> <i>PhD in Astrophysics</i> Distinción Maxima 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	<b>University of Victoria</b> <i>Bachelor of Science in Physics and Astronomy</i> Co-operative Education Distinction	Victoria, Canada

## HONOURS, GRANTS, AND AWARDS

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

## EQUITY, DIVERSITY, AND INCLUSION

Jan. 2022 -	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

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### Graduate Student Supervision

2023-2025	Ryan Primdahl (MSc) Cameron Leahy (MSc)
2022-2024	Solveig Thompson (MSc)

### Undergraduate Research Interns

2023	Panos Kordakis (CSA-funded) Haruka Yoshino (CSA-funded) Ayushmathi Ashok (CSA-funded) Rainbow Peng (NSERC-USRA)
2022	Zach Sumners (UCalgary PURE)
2021	Isaac Cheng (remote co-supervision; HAA co-op student) Rohan Rahatgaonkar (remote co-supervision; Gemini South)
2020	Kaitlin Cranston (HAA-funded; Plaskett Scholar) Jonathan Mah (remote co-supervision; HAA co-op student)
2019	Rachel Cooper (Gemini North) Leomana Turalde (Akamai Intern)

### Teaching

2023	ASPH401 – Galactic Astrophysics ASTR209 – Introduction to Astronomy II: The Cosmos	UCalgary, Canada
2022	ASPH401 – Galactic Astrophysics	UCalgary, Canada

## ACCEPTED PI OBSERVING PROGRAMS

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2022	<b>"High-resolution ACS/WFC3 Imaging of Compact Stellar Systems in the Virgo Cluster in Support of JWST Cycle 1 Science"</b> (Prog ID: 16882; 5 orbits awarded in HST Cycle 29 using ACS/WFC3)	STScI HST TAC
2021	<b>"Do Massive Black Holes Come in Small Packages? A Census of Black Holes in Compact Stellar Systems in the Virgo Cluster"</b> (ProgID: 2567; 41.2 hours awarded in JWST Cycle 1 using NIRSpec/IFU)	STScI JWST TAC
2019A	<b>"The Need for Speeds: Using Globular Clusters to Map the Kinematics of NGC5128 and its Surrounding Environment"</b> (6.5 nights awarded in grey/dark time on 2dF/AAOmega/AAT)	Australian National TAC
2018A	<b>"The Need for Speeds: A pilot study to map the velocity field of NGC5128 with ultra-compact dwarf galaxies"</b> (7.5 hours awarded in Band 1 on Gemini South/GMOS)	Gemini Fast Turnaround
2018A	<b>"Dancing in the Dark: GMOS-S imaging of a potential dwarf binary pair"</b> (6.2 hours awarded in Bands ½ on Gemini South/GMOS)	Gemini National and Fast Turnaround TACs
2016A	<b>"Redder is Better: The Survey of Centaurus A's Baryonic Structures - Near-Infrared Supplement"</b> (37.5 hours awarded on VISTA/VIRCam)	ESO OPC
2015A	<b>"The Dark Side of NGC 5128's Globular Cluster System"</b> (13.2 hours awarded on VLT/XSHOOTER)	ESO OPC
2013/2014B	<b>"Compact Stellar Systems in Hickson Compact Groups: A MultiBand Photometric Survey for their Origins"</b> (36.5 hours awarded on VLT/HAWK-I+VIMOS)	ESO OPC

2014A      **"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**      Victoria, Canada  
*Helped organize and host visiting speakers to NRC's Herzberg Astronomy and Astrophysics Research Centre*

2018--2019      **Queue Observing Coordinator**      Hilo, USA  
*Daily organization and development of nightly queue observing plans*

2018--2019      **Seminar Coordinator**      Hilo, USA  
*Helped organize and host visiting speakers to Gemini Northern Operations Center*

2017--2019      **Gemini Fast Turnaround Team Member**      Hilo, USA  
*Support for Gemini Fast Turnaround Observing Mode Program*

2017--2019      **Gemini North Queue Observer**      Hilo, USA  
*Nighttime queue observing duties at Gemini North*

2017--2019      **Member Gemini Near-Infrared Support Team**      Hilo, USA  
*Support for Gemini's Near-Infrared Instrumentation*

2015      **"Near-UV Spectroscopy of Galactic Globular Clusters: Probing the Self-Enrichment Scenario"**      Cerro Pachón  
*2 nights on SOAR/Goodman Spectrograph*

2015      **"Mapping the Radial Distribution of the Unusual Globular Cluster System of NGC 4365"**      Las Campanas  
*0.5 night on Magellan (Baade)/Fourstar Imager*

2014      **"SCABS: The Survey of Centaurus A's Baryonic Structures"**      Cerro Tololo  
*2 nights on Blanco/DECam*

2013      **"Chemodynamical Characterization of Blue Straggler Stars in Galactic Globular Clusters"**      Cerro Paranal  
*3 nights on VLT/FLAMES*

## PROFESSIONAL COMMUNITY SERVICE

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- **Professional Association Service**
  - 2023 – elected to CASCA Board of Directors for three-year term
  - 2023 – Research/Colloquium Committee, UCalgary Dept. of Physics & Astronomy
  - 2022 – Equity, Diversity, and Inclusion Committee Chair, UCalgary Dept. of Physics & Astronomy
  - 2022 – User Committee for Gemini Canadian Representative
  - 2022 – CASTOR Phase 0 Science Working Group member
  - 2018 – Contributor to “Galaxy Formation and Evolution” Science Development Team for the Maunakea Spectroscopic Explorer project
  - 2017 – “Milky Way and Nearby Galaxies” International Science Development Team member for the Thirty Meter Telescope project
- **Editing and Peer Review**
  - 2023 – Lead editor for “Milky Way and Nearby Galaxies” chapter of the Thirty Meter Telescope Detailed Science Case document update
  - 2022 – Co-author for User Committee for Gemini Recommendation Report
  - 2020 – Review Editor for Frontiers in Astronomy and Space Sciences
  - 2020 – Reviewer for Astronomy & Astrophysics
- **Professional Conference Service**
  - 2023 – Invited session chair for CASCA annual general meeting
  - 2022 – Invited session chair for Gemini Science Meeting
  - 2022 – Invited panelist for Gemini Science Meeting

- 2021 – Herzberg Astronomy and Astrophysics Research Centre Science Jamboree Coordinator
- 2021 – “Be the Captain of Your PhD” graduate student workshop coordinator (facilitated by Dr. Kim-Vy Tran)
- 2018 – Facilitator for multi-day instrument design exercise at the Early Career Initiative workshop for the Thirty Meter Telescope project
- **Media Appearances**
  - 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)

## OUTREACH SERVICE

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Oct. 2023	<b>University of Calgary Open House</b> “Do Massive Black Holes Come in Small Packages” public talk	Calgary, Canada
Sept. 2023	<b>Beakerhead Festival “Be an Alien Astronomer” Interactive Exhibit</b>	Calgary, Canada
Oct. 2022	<b>Rothney Astrophysical Observatory Space Night</b> Public talk on the James Webb Space Telescope for the local Calgary astronomy community	Calgary, Canada
Aug. 2022	<b>Mount Royal University Summer Space Camp</b> Astronomy outreach activities and Q&A with kids attending MRU Space Camp	Calgary, Canada
July 2022	<b>SHAD-Carleton Lecture</b> Guest lecture for students participating in SHAD Canada program	Calgary, Canada
Nov. 2021	<b>Local Astronomy James Webb Space Telescope Outreach Talk</b> Presentation on JWST Cycle 1 Science to Friends of the Dominion Astrophysical Observatory	Victoria, Canada
Aug. 2021	<b>Highschool Student Outreach</b> Career and science discussion with grade ten students.	Victoria, Canada
Jan. 2021	<b>Royal Astronomical Society of Canada Public Talk</b> “Judge Me By My Size Do You? Tales of the littlest galaxies that could.” Virtual public outreach talk	Victoria, Canada
Dec. 2020	<b>University of Victoria Astronomy Open House Public Talk</b> “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	<b>Hilo Astroday</b> Community outreach in the Hawaiian community to inspire children and youth to observatory careers.	Hilo, USA
Mar. 2018,19	<b>Journey Through the Universe</b> Community outreach to share astronomy with Hawaiian children through hands-on classroom activities and “ask-me-anything” sessions.	Hilo, USA
Dec. 2017	<b>Astronomy on Tap Public Talk</b> “So You Think You Can Galaxy: Tales of the Littlest Star Systems that Could” public outreach talk	Hilo, USA
Nov. 2017	<b>Kona Astroday</b> Community outreach in the Hawaiian community to inspire children and youth to observatory careers.	Kona, USA

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## PUBLICATIONS

## Peer Reviewed Journal Articles

(Five first-author papers with 138 citations; eighteen co-author papers with 720 citations; H=15)

- [23] 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*, in press
- [22] 2023 **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*, *submitted*
- [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
- [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
- [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
- [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
- [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
- [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
- [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
- [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
- [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
- [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**

- [11] 2018 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  
**Stellar Population Properties of Ultra-Compact Dwarfs in M87: A mass-metallicity correlation connecting low-metallicity globular clusters and compact ellipticals**
- [10] 2018 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  
**The Next Generation Fornax Survey (NGFS). II. The Central Dwarf Galaxy Population**
- [9] 2017 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  
**The Extended Baryonic Halo of NGC3923**
- [8] 2017 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  
**The Survey of Centaurus A's Baryonic Structures (SCABS). II. The Extended Globular Cluster System of NGC5128 and its Nearby Environment**
- [7] 2016 **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  
**Faint Dwarf Galaxies in Hickson Compact Group 90**
- [6] 2016 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  
**The Lost Dwarfs of Centaurus A and the Formation of its Dark Globular Clusters**
- [5] 2015 Bovill, M.S. Bovill, Puzia T.H., Ricotti, M., and **Taylor, M.A.**, *The Astrophysical Journal*, vol. 832, no. 1, 2016, pp. 88-99  
**Unveiling a Rich System of Faint Dwarf Galaxies in the Next Generation Fornax Survey**
- [4] 2015 Muñoz, R.P., Eigenthaler, P., Puzia, T.H., **Taylor, M.A.**, Ordenes-Briceño, Y., Alamo-Martínez, K., Ribbeck, K.X., Ángel, S., Capaccioli, M., Côté, P., Ferrarese, L., Galaz, G., Hempel, M., Hilker, M., Jordán, A., Lançon, A., Mieske, S., Paolillo, M., Richtler, T., Sánchez-Janssen, R., and Zhang, H., *The Astrophysical Journal Letters*, vol. 813, no. 1, 2015, pp. 15-21  
**Observational Evidence for a Dark Side to NGC 5128's Globular Cluster System**
- [3] 2014 **Taylor, M.A.**, Puzia, T.P., Gomez, M., and Woodley, K.A., *The Astrophysical Journal*, vol. 805, no. 1, 2015, pp. 65-85  
**The Next Generation Virgo Survey-Infrared (NGVS-IR). I A New Near-Ultraviolet, Optical, and Near-Infrared Globular Cluster Selection Tool**
- [2] 2011 Muñoz, R.P., Puzia, T.H., Lançon, A., Peng, E.W., Côté, P., Ferrarese, L., Blakeslee, J.P., Mei, S., Cuillandre, J.-C., Hudelot, P., Courteau, S., Duc, P.-A., Balogh, M.L., Boselli, A., Bournaud, F., Carlberg, R., Chapman, S.C., Durrell, P., Eigenthaler, P., Emsellem, E., Gavazzi, G., Gwyn, S., Huertas-Company, M., Ilbert, O., Jordán, A., Läscher, R., Licitra, R., Liu, C., MacArthur, L., McConnachie, A., McCracken, H.J., Mellier, Y., Peng, C.Y., Raichoor, A., **Taylor, M.A.**, Tonry, J.L., Tully, B.R., and Zhang, H., *The Astrophysical Journal Supplement*, vol. 210, no. 1, 2014, pp. 4-27  
**The Canada-France Ecliptic Plane Survey -- Full Data Release: The orbital structure of the Kuiper Belt**
- [1] 2010 Petit, J.-M., Kavelaars, J.J., Gladman, B.J., Jones, R.L., Parker, J. Wm., Van Laerhoven, C., Nicholson, P., Mars, G., Rousselot, P., Mousis, O., Marsden, B., Bieryla, A., **Taylor, M.**, Ashby, M.L.N., Benavidez, P., Campo Bagatin, A., and Bernabeu, G., *The Astronomical Journal*, vol. 142, no. 4, 2011, pp. 24  
**Chemodynamics of Compact Stellar Systems in NGC 5128: How similar are globular clusters, ultra-compact dwarfs, and dwarf galaxies?**
- Taylor, M.A.**, Puzia, T.H., Harris, W.E., Harris, G.L.H., Kissler-Patig, M., and Hilker, M., *The Astrophysical Journal*, vol. 712, no. 2, 2010, pp. 1191-1208

### Conference Proceedings

- [11] 2019 **The Gemini Fast Turnaround Program**  
 Anderson, M., Chiboucas, K., Geball, T., Salinas, R., Scharwaechter, J., Eckersley, J., Kim, H., **Taylor, M.A.**, Dupuy, T., & Sanmartin, D. 2019, American Astronomical Society Meeting Abstracts #233, 233, #455.03

- [10] 2019 **Dwarf Galaxies, Globular Clusters, and Ultra-compact Dwarfs: Getting to know the outer halo of NGC5128**  
**Taylor, M.A.**, Puzia, T.H., Eigenthaler, P., Ribbeck, K.X., Zhang, H.X., Ordenes-Briceño, Y., & Bovill, M.S. 2019, American Astronomical Society Meeting Abstracts #233, 233, #339.01
- [9] 2019 **A New Reservoir of Dwarf Galaxy Candidates in the Centaurus A Group**  
**Taylor, M.A.**, Eigenthaler, P., Puzia, T.H., Muñoz, R.P., Ribbeck, K.X., Zhang, H.X., Ordenes-Briceño, Y., & Bovill, M.S. 2019, *Dwarfs from the Deep Universe to the Present*, 344, 353. doi:10.1017/S1743921318006634
- [8] 2017 **Faint Dwarf Galaxies in Hickson Compact Group 90**  
 Ordenes-Briceño, Y., **Taylor, M.A.**, Puzia, T.H., & Muñoz, R.P., 2017, *Revista Mexicana de Astronomía y Astrofísica Conference Series*, 49, 130
- [7] 2017 **The Extended Globular Cluster System of NGC3923**  
 Ahumada, T., Miller, B., Candlish, G., McGaugh, S.S., Mihos, C., Smith, R., Puzia, T.H., & **Taylor, M.A.**, 2017, American Astronomical Society Meeting Abstracts, 229, 343.22
- [6] 2015 **Forming NGC 5128's High M/L Globular Clusters**  
 Sauda Bovill, M., Puzia, T.H., Ricotti, M., & **Taylor, M.A.**, 2015, IAU General Assembly, 22, 2258170
- [5] 2015 **SCABS: A Survey of Centaurus A's Baryonic Structures**  
 Puzia, T.H., & **Taylor, M.A.**, 2015, IAU General Assembly, 22, 2258151
- [4] 2015 **The Dark Side of SCABS: Predictions for Centaurus A's Baryonic Substructure**  
 Sauda Bovill, M., **Taylor, M.A.**, Puzia, T.H., Padilla, N., & Eigenthaler, P., 2015, IAU General Assembly, 22, 2258133
- [3] 2015 **Evidence for a Dark Side to NGC5128's Globular Cluster System**  
 Puzia, T.H., & **Taylor, M.A.**, 2015, IAU General Assembly, 22, 2258025
- [2] 2015 **NGC 5128's Globular Cluster System: Is there a dark side?**  
**Taylor, M.A.**, Puzia, T.H., Gomez, M., and Woodley, K.A., 2015, in *IAU Symp. 309 Galaxies in 3D Across the Universe*, ed. Ziegler, B.L., Combes, F., Dannerbauer, H., & Verdugo, M., (Cambridge, UK: Cambridge Univ. Press), pp. 348
- [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

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

#### Invited Talks

- [6] Feb. 2023 **Judge Me by My Size, Do You? Decoding giant galaxies using low-mass stellar systems.**  
 University of Calgary, Calgary, AB, Canada, 2 February 2023
- [5] Nov. 2021 **Judge Me Not by My Size: The life and times of the littlest star systems that could.**  
 Camosun College, Victoria, Canada, 18 November 2021
- [4] July 2021 **Judge Me Not by My Size: What low-mass stellar systems can do for you.**  
 University of Calgary (remote), Calgary, Canada, 15 July 2021
- [3] April 2021 **A Fresh Look at M49's Globular Cluster System Kinematics with MMT/Hectospec Spectroscopy.**  
 HAA Science Jamboree, *virtual meeting*, April 2021
- [2] Sept. 2016 **The Extended Globular Cluster System of NGC5128 and its Nearby Environment**  
 University of Victoria, Victoria, Canada, 22 Sept. 2016.
- [1] Sept. 2016 **The Extended Globular Cluster System of NGC5128 and its Nearby Environment**  
 Herzberg Institute of Astrophysics, Victoria, Canada, 13 Sept. 2016.

#### Contributed Talks

- [8] Dec. 2023 **Massive Black Holes in Compact Stellar Systems with JWST: prospects for future ground-based extremely large telescopes**  
 ELT Science in Light of JWST conference, UCLA, California, 11-17 Dec. 2023
- [7] June 2023 **Searching for Massive Black Hoels in Compact Stellar Systems with JWST**  
 CASCA 2023, Penticton, 12-16 June 2023
- [6] Jan. 2019 **Dwarf Galaxies, Globular Clusters, and Ultra-compact Dwarfs: Getting to know the outer halo of NGC5128**  
 AAS 233, Seattle, USA, 6-10 January 2019.

- [5] Aug. 2018 **A Newly Discovered Reservoir of Dwarf Galaxies in the Centaurus A Group**  
IAU-GA Symposium 344, Vienna, Austria, 20-24 August 2018.
- [4] May 2018 **Neighbourhood Watch: A survey of baryonic structures in the Local Universe**  
CASCA 2018, Victoria, Canada, 22-26 May 2018.
- [3] May 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**  
*Multiwavelength Dissection of Galaxies*, Sydney, Australia,  
24–29 May 2015.
- [2] Mar. 2015 **Observational Evidence for a Dark Side to Centaurus A's Globular Cluster System**  
*Modelling and Observing Dense Stellar Systems 15*, Concepción,  
Chile, 2–6 Mar. 2015.
- [1] May 2014 **Observational Evidence for a Bifurcation in the Dynamical Mass Scaling Relations of Compact Stellar Systems in NGC 5128**  
*Formation and Evolution of Star Clusters*, Santiago, Chile, 14–16 May 2014.

### Contributed Posters

- [12] 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**  
CASCA 2022, Waterloo (virtual), 16-20 May 2022
- [11] Apr. 2022 **Tracing a Recent Accretion Event onto M49's Halo Through Its Rich Globular Cluster System**  
Galaxy Clusters 2022, STScI (virtual), 25-29 April 2022
- [10] May 2021 **Do Black Holes Come in Small Packages? The future of black hole observations with the James Webb Space Telescope.**  
Tech-X general meeting, *virtual meeting*, 18 May 2021
- [9] May 2021 **A Fresh Look at M49's Globular Cluster System Kinematics with MMT/Hectospec Spectroscopy.**  
CASCA annual general meeting, *virtual meeting*, 10-14 May 2020
- [8] May 2020 **Globular Clusters on the Half-shell: a fresh look at the kinematics of M49's globular cluster system.**  
CASCA annual general meeting, *virtual meeting*, 25-28 May 2020.
- [7] Dec. 2018 **The Curiously Complex Satellite System of NGC5128**  
TMT Science Forum, Pasadena, USA, 9-12 December 2018.
- [6] Aug. 2015 **Evidence for a Dark Side to NGC 5128's Globular Cluster System**  
*IAUS316: Formation, Evolution, and Survival of Massive Star Clusters*, Honolulu, USA, 11–14 Aug. 2015.
- [5] Aug. 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**  
*IAUS317: The General Assembly of Galaxy Halos: Structure, Origin and Evolution*, Honolulu, USA, 3–7 Aug. 2015.
- [4] Apr. 2015 **SCABS: The Survey of Centaurus A's Baryonic Structures**  
*Satellites and Streams in Santiago*, Santiago, Chile,  
13–17 Apr. 2015.
- [3] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**  
*IAUS311: Galaxy Masses as Constraints of Formation Models*,  
Oxford, United Kingdom, 21–25 July 2014.
- [2] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**  
*IAUS309: Galaxies in 3D Across the Universe*, Vienna, Austria,  
7–11 July 2014.
- [1] Jul. 2014 **Discovering the Dark Side of Centaurus A's Globular Cluster System**  
*Nuclear Clusters in Galaxies, and the Role of the Environment*,  
Leiden, The Netherlands, 30 June–4 July 2014.