YORK UNIVERSITY
218 BETHUNE COLLEGE
TORONTO, ONTARIO, CANADA
M3J 1P3
TEL: (+1) 416-736-5021

Department of Science, Technology and Society
Division of Natural Sciences
Faculty of Science

JEREMY J. WEBB

Email:webbjj@yorku.ca, Website: https://www.yorku.ca/professor/jeremywebb/

Experience

2023 –	**York University, Toronto, ON, Canada**
	Assistant Professor (Teaching Stream)
2019 - 2023	**University of Toronto, Toronto, ON, Canada**
	Assistant Professor – Contract Limited Term Appointment
	Additional Roles: Undergraduate Chair, Summer Undergraduate Research Program Chair
2017 - 2019:	**University of Toronto, Toronto, ON, Canada**
	NSERC Postdoctoral Fellow, Host: J. Bovy
2015–2017:	**Indiana University, Bloomington, IN, USA**
	Postdoctoral Fellow, Advisor: E. Vesperini
2009-2015:	**McMaster University, Hamilton, ON, Canada**
	Graduate Student, Advisors: W.E. Harris and A. Sills
2009:	**NASA Goddard Spaceflight Center, Greenbelt, MD, USA**
	Research Assistant, Advisor: S.R. Heap
2007-2008:	**University of Wat2Jerloo, Waterloo, ON, Canada**
	Research Assistant, Advisor: G.L.H. Harris
2005-2006:	**University of Notre Dame**, **South Bend, IN, USA**
	Research Assistant, Advisors: J. LaVerne and P. Collon

Education

2015:	**McMaster University, Hamilton, ON, Canada**
	Ph. D., Astronomy
	Title: The Scale Size and Dynamical Evolution of Star Clusters in Tidal Fields
2014:	**McMaster University, Hamilton, ON, Canada**
	Certificate in Effective University Teaching
2011:	**McMaster University, Hamilton, ON, Canada**
	MSc., Astronomy
	Title: The Observational and Theoretical Tidal Radii of Globular Clusters in M87
2009:	**International Space University, Strasbourg, France**
	MSc., Space Studies
2008:	**University of Waterloo, Waterloo, ON, Canada**
	Honours B.Sc., Science with Astrophysics Specialization

Student Supervision

PhD.* Students*:

2021-present:	Steffani Grondin, University of Toronto (with Maria Drout)
2018-2024:	Nathaniel Starkman, University of Toronto (with Jo Bovy)

MSc.* Students*:

2021-2023: Jacob Meadus, University of Toronto
2019: Adam Butko, University of Toronto (with Jo Bovy & Masen Lamb)
2018-2019: Abhinav Jindal, University of Toronto (with Jo Bovy)
2016-2017: Abhishek Singh, Indiana University
2015-2016: Saahil S. Patel, Indiana University (with Enrico Vesperini)
2013-2016: Meghan Miholics, McMaster University (with Alison Sills)

BSc. Students:

2022-2023: Parisa Acharya, Daniella Morrone, Justine Obidowski, University of Toronto
2022-2023: Ian Chow, Ritik Kothari, Rosalind Liang, Khemaka Oo, Ryan Wang, Jayant Zutshi University of Toronto (with Josh Speagle)
2022-2023: Julian Meunier (with Ting Li & Keir Rogers)
2021-2023: Eric Conenna , Milica Ivetic, Erik Gillis, University of Toronto
2020-2021: Reem Khalifeh, University of Toronto
2019-2021: Nicholas Pavanel, University of Toronto
2017-2018: Amy Fare, McMaster University (with Alison Sills)

Summer Undergraduate Research Program:

2023: Parisa Acharya, University of Toronto
2022: Robin Wen (with Josh Speagle), Ruth Huang (with Ting Li & Keir Rogers)
2020: Nada El-Falou, University of Toronto
2019: Turner Garrow, University of Toronto (with Jo Bovy)
2018: Shaziana Kaderali, University of Toronto (with Jason Hunt)

Research Grants & Awards

2022-: **University of Toronto – Hebrew University of Jerusalem Research and Training Alliance** (CO-PI)
2017-2019: **National Science and Engineering Research Council (NSERC) Postdoctoral Fellowship**
2016: **American Museum of Natural History Collection Studies Grant**
2013 – 2015: **NSERC Alexander Graham Bell Canada Graduate Scholarship** - academic excellence, research potential, communication, interpersonal and leadership abilities
2012-2013: **Dawes Memorial Fellowship for Graduate Studies in Physics**, McMaster University
2011-2012: **A. Boyd McLay Ontario Graduate Student Scholarship**, McMaster University - academic and research achievements

Computational & Observational Resources Awarded

2021: **CO-I** – Gemini Telescope, 5 hours, "Constraining the stellar chemo-dynamics within the inner core of the globular cluster Terzan 5"
2021: **CO-I** – ESO VLT Telescope, 2 Nights, "Variation in the Stellar Mass Function of the Globular Cluster 47 Tuc"
2020-2021: **PI** - Compute Canada Resource Time (5 GPU Years and 3 Core Years per year), "The Fast-Evolution of Star Clusters in Cosmological Tidal Fields"
2020: **CO-I** - Gemini Telescope, 2 Nights "An Extended Palomar 5 Stream"
2019: **CO-I** - ESO VLT Survey Telescope, 2 Nights, "Investigating the impact of the environment on the globular cluster initial mass function"
2019: **CO-I** - Gemini Telescope, "A GIRMOS Pilot Project: Constraining the Presence of an Intermediate Black Hole in Terzan 5"

2019: **CO-I** - Magellan/Clay Telescope, 1 Night, "Radial Variations in the Mass Functions of Globular Clusters"
2018: **CO-I** - ESO VLT Survey Telescope, 1 Night, "Constraining the Initial Mass Function of Globular Clusters"
2018: **CO-I** - Compute Canada Resource Time (5 GPU Years, 626 Core Years), "Modelling Globular Clusters in Cosmologically Motivated Tidal Fields"
2017: **CO-I** - Magellan/Baade Telescope, 2 Nights, "Radial Variations in the Mass Functions of NGC3201, NGC6656, and NGC 6362"
2014-2016: **CO-I** - Compute Canada Resource Time (41 Core Years per year), "Direct N-Body Simulations of Massive Globular Clusters"
2011: **CO-I** - Hubble Space Telescope Cycle-19, GO-12532, 2 Orbits, "The Scale Sizes of Globular Clusters: Tidal Limits, Evolution, and the Outer Halo"

Teaching Experience

2024: **Assistant Professor**, NATS 1530 (Spaceflight and Exploration), York University
Assistant Professor, NATS 1570 (Exploring the Solar System), York University
2023-2024: **Assistant Professor**, NATS 1880 (Life Beyond Earth), York University
Assistant Professor, Astronomy 251 (Life on Other Worlds), University of Toronto
2019-2023: **Assistant Professor**, Astronomy 101 (Sun and its Neighbours), University of Toronto
Assistant Professor, Astronomy 201 (Stars and Galaxies), University of Toronto
Assistant Professor, Astronomy 222 (Galaxies and Cosmology), University of Toronto

Professional Activities

Service Council of the Faculty of Science Committee on Examinations and Academic Studies (York University)
Undergraduate Program Committee, Postdoctoral Fellow Liaison and Mentor (University of Toronto)
Affiliations SDSS-IV Collaboration, GIRMOS Science Team, CASTOR Science Team
Reviewer Nature, Monthly Notice of the Royal Astronomical Society, Astronomy and Astrophysics, Canadian Time Allocation Committee

Select Outreach Experience

2022-2024: **Program Coordinator**, Dunlap Institute / Visions of Science Internships
2021: **Project Supervisor**, Visions of Science, "Exoplanets Orbiting Solar Sibling Candidates"
2021: **Interviewee**, Gaia Science Interviews, "Solar Siblings"
2021: **Panelist**, Astronomy and Space Explorers Society Symposium, "What is Dark Matter?"
2021: **Speaker,** Q&A with Minesing Central Public School Grade 1 Class
2018–2021: **Lecturer**, University of Toronto Summer Undergraduate Research Program
2020: **Planning Committee Member**, Dunlap Institute Planet Party
2020: **Speaker**, Cosmos from Your Couch, "The Astronomy of Shakespeare",
2018–2020: **Planning Committee Member and Presenter**, Let's Talk Science Challenge,
2019: **Volunteer**, "Communicating Science Workshop", McMaster University
2019: **Speaker**, Astronomy & Space Explorers Society, "Stellar Fossils of the Early Universe"
2018: **Speaker**, Fairview Library's Space & Explorers Club
2016: **Planning Committee Member**, Indiana University Science Fest, "Life Inside a Globular Cluster Virtual Reality Demonstration"
2013-2015 **Planetarium Presenter**, W. J. McCallion Planetarium, McMaster University

Publication List

In the below list of publications, the corresponding author of each paper is listed as the first author. Underlined authors note the training of highly qualified personnel.

Refereed Publications:

1. **Webb, J.J.**, Reina-Campos, M., Kruijssen, J.M.D. 2024, "A systematic analysis of star cluster disruption by tidal shocks – II. Prediction star cluster dissolution rates from a time-series analysis of their tidal field", The Astrophysical Journal, Accepted

2. Grondin, S.M., **Webb, J.J.,** Lane, J.M.M., Speagle, J.S., Leigh, N.W.C. 2024 "A catalogue of Galactic GEMS: Globular cluster Extra-tidal Mock Stars", Monthly Notices of the Royal Astronomical Society, 528, 5189

3. Leigh, N.W.C, Ye, C.S., Grondin, S.M., Fragione, G., **Webb, J.J.**, Heinke, C.O., 2024, "The dominant mechanism(s) for populating the outskirs of star clusters with neutron star binaries", Monthly Notices of the Royal Astronomical Society, 527, 6913

4. Wen, R.Y., Speagle, J.S., **Webb, J.J.**, Eadie, G.M. 2024, "Hierarchical Bayesian inference of globular cluster properties", Monthly Notices of the Royal Astronomical Society, 527, 4193

5. **Webb, J.J. 2023,** "clustertools", SOI:10.5281/zenodo.4087227, Journal of Scientific Computation, 8, 4483

6. Starkman, N., Bovy, J., **Webb, J.J.**, Calvetti, D., Somersalo, E. 2023, "On the Fast (Stream) Track: Rapid construction of stellar stream paths", Monthly Notices of the Royal Astronomical Society, 522, 5022

7. **Webb, J.J.,** Hunt, J.A.S, Bovy, J., 2023, "Made-to-Measure Modelling of Globular Clusters", Monthly Notices of the Royal Astronomical Society, 521, 3898

8. Grondin, S. M., **Webb, J.J.**, Leigh, N.W.C., Speagal, J.S., Khalifeh, R. 2023, "Searching for the extra-tidal stars of globular clusters using high-dimensional analysis and a core particle spray code", Monthly Notices of the Royal Astronomical Society, 518, 4249

9. Leigh, N.W.C., Stone, N.C., **Webb, J.J.**, Lyra, W. 2022 "The thermodynamics of stellar multiplicity: dynamical evolution of binary star populations in dense stellar environments", Monthly Notices of the Royal Astronomical Society, 517, 3838

10. Eadie, G.M., **Webb, J.J.**, Rosenthal, J.S. 2022, "Bayesian Inference of Globular Cluster Properties Using Distribution Functions", The Astrophysical Journal, 926, 211

11. El-Falou, N. & **Webb, J.J.** 2022, **"**The Effect of Dwarf Galaxies on the Tidal Tails of Globular Clusters**",** Monthly Notices of the Royal Astronomical Society, 510, 2437

12. **Webb, J.J.** & Bovy, J. 2022, **"**Variation in the Stellar Mass Function Along Stellar Streams", Monthly Notices of the Royal Astronomical Society, 510, 774

13. Pavanel, N. & **Webb, J.J.** 2021, "The Effects of ΛCDM Substructure on the Orbital Evolution of Star Clusters", Monthly Notices of the Royal Astronomical Society, 503, 1932

14. Meiron, Y., **Webb, J.J**., Hong, J., Berczik, P., Spurzem, R., Carlberg, R.G. 2021, "Mass loss from massive globular clusters in tidal fields", Monthly Notices of the Royal Astronomical Society, 503, 3000

15. **Webb, J.J.** & Carlberg, R.G. 2021, "The Likelihood of Undiscovered Globular Clusters in the Outskirts of the Milky Way", Monthly Notices of the Royal Astronomical Society, 502, 4547

16. **Webb, J.J.** & Sills, A. 2021, "The Initial Properties of Young Star Clusters in M83", Monthly Notices of the Royal Astronomical Society, 501, 1933

17. **Webb, J.J.** & Bovy, J. 2020, "High-Resolution Simulations of Dark Matter Subhalo Disruption in a Milky Way-like Tidal Field", Monthly Notices of the Royal Astronomical Society, 499, 116

18. Garrow, T., **Webb, J.J.**, Bovy, J. 2020, "The Effects of Dwarf Galaxies on the Orbital Evolution of Galactic Globular Clusters", Monthly Notices of the Royal Astronomical Society, 499, 804

19. Cadelano, M., Dalessando, E., **Webb, J.J.**, Vesperini, E., Lattanzio, D., Beccari, G. 2020, "Radial variation of the stellar mass functions in the globular clusters M15 and M30: clues of a non-standard IMF?", Monthly Notices of the Royal Astronomical Society, 499, 239

20. Price-Jones, N., Bovy, J., **Webb, J.J.,** Prieto, C.A., Beaton, R., Brownstein, J.R., Cohen, R.E., Cunha, K., Donor, J., Frinchaboy, P.M., García-Hernández, D.A., Lane, R.R., Majewski, S.R., Nidever, D.L., 2020 "Strong chemical tagging with APOGEE: 21 candidate star clusters that have dissolved across the Milky Way disc", Monthly Notices of the Royal Astronomical Society, 496, 5101

21. **Webb, J.J.,** Price-Jones, N., Bovy, J., Hunt, J.A.S, Portegies-Zwart, S., Mackereth, J.T., Leung, H.W. 2020 "Searching for Solar Siblings in APOGEE and Gaia DR2 with N-body Simulations", Monthly Notices of the Royal Astronomical Society, 494, 2268

22. Starkman, N., Bovy, J., **Webb, J.J.** 2020, "An extended Pal 5 stream in Gaia DR2", Monthly Notices of the Royal Astronomical Society, 493, 4978

23. Leaman, R., Ruiz-Lara, T., Cole, A.A., Beasley, M.A., Boecker, A., Fahrion, K., Bianchini, P., Falcon-Barroso, J., **Webb, J.J.**, Sills, A., Mastrobuono-Battisti, A., Neumayer, N. 2019 "There and Back Again: Globular cluster ejection, infall and the host dark matter halo of the Pegasus dwarf galaxy", Monthly Notices of the Royal Astronomical Society, 492, 5102

24. Piatti, A.E, **Webb, J.J.**, Carlberg, R.G. 2019, "Characteristic radii of the Milky Way Globular Clusters", Monthly Notices of the Royal Astronomical Society, 489, 4367

25. **Webb, J.J.**, Bovy, J., Carlberg, R.G., Gieles, M. 2019, "Modelling the Effects of Dark Matter Substructure on Globular Cluster Evolution with the Tidal Approximation", Monthly Notices of the Royal Astronomical Society, 488, 5748

26. **Webb, J.J.**, Leigh, N.W.C., Serrano, R., Bellovary, J., Ford, K.E.S., McKernan, B., Spera, M., Trani, A.A. 2019, "The evolution of kicked stellar-mass black holes in star cluster environments - II. Rotating star clusters", Monthly Notices of the Royal Astronomical Society, 488, 3055

27. Jindal, A., **Webb, J.J.**, Bovy, J. 2019, "The orbital anisotropy profiles of nearby globular clusters from Gaia Data Release 2", Monthly Notices of the Royal Astronomical Society, 487, 3693

28. **Webb, J.J.**, Reina-Campos, M., Kruijssen, J.M.D. 2019, "A systematic analysis of star cluster disruption by tidal shocks – I. Controlled N-body simulations and a new theoretical model", Monthly Notices of the Royal Astronomical Society, 486, 5879

29. **Webb, J.J.** & Bovy, J. 2019, "Searching for the GD-1 Stream Progenitor in Gaia DR2 with Direct N-body Simulations", Monthly Notices of the Royal Astronomical Society, 485, 5929

30. Kaderali, S., Hunt, J.A.S., **Webb, J.J.**, Price-Jones, N., Carlberg, R. 2019, "Rediscovering the Tidal Tails of NGC 288 with Gaia DR2", Monthly Notices of the Royal Astronomical Society Letters, 484, 114

31. Hong, J., Patel, S., Vesperini, E., **Webb, J.J.**, Dalessandro, E. 2019, "Spatial Mixing of Binary Stars in multiple-population globular clusters", Monthly Notices of the Royal Astronomical Society, 483, 259

32. Fare, A., **Webb, J.J.** & Sills, A. 2018, "The Effect of Stellar Helium Abundance on Dynamics of Multiple Populations in Globular Clusters", Monthly Notices of the Royal Astronomical Society, 481, 3027

33. **Webb, J.J**. & Vesperini, E. 2018, "The Structural and Kinematic Evolution of Central Star Clusters in Dwarf Galaxies and Their Dependence on Dark Matter Halo Profiles", Monthly Notices of the Royal Astronomical Society, 479, 3708

34. Vesperini, E., Hong, J., **Webb, J. J.**, D'Antona, F., D'Ercole, A. 2018. "Evolution of the Stellar Mass Function in Multiple-Population Globular Clusters", Monthly Notices of the Royal Astronomical Society, 476, 2731

35. Dalessandro, E., Cadelano, M., Vesperini, E., Salaris, M., Ferraro, F. R., Lanzoni, B., Raso, S., Hong, J., **Webb, J. J.**, Zocchi, A. 2018, "The Peculiar Radial Distribution of Multiple Populations in the Massive Globular Cluster M80", The Astrophysical Journal, 859, 15

36. Bianchini, P., **Webb, J. J.**, Sills, A., Vesperini, E. 2018, "Kinematic Fingerprint of Core-Collapsed Globular Clusters", Monthly Notices of the Royal Astronomical Society Letters, 475, 96

37. **Webb, J. J.**, Leigh, N., Singh, A., Ford, S., McKernan, B., Bellovary, J. 2018, "The Evolution of Kicked Stellar-Mass Black Holes in Star Cluster Environments", Monthly Notices of the Royal Astronomical Society, 474, 3835

38. **Webb, J. J.**, Vesperini, E., Dalessandro, E., Beccari, G., Ferraro, F.R., Lanzoni, B. 2017, "Modelling the Observed Stellar Mass Function and its Radial Variation in Galactic Globular Clusters", Monthly Notices of the Royal Astronomical Society, 471, 3845

39. **Webb, J. J.**, Patel, S., & Vesperini 2017, "The Early Evolution of Star Clusters in Compressive and Extensive Tidal Fields", Monthly Notices of the Royal Astronomical Society Letters, 468, 92

40. **Webb, J. J.** & Vesperini, E., 2017, "On the Link Between Energy Equipartition and Radial Variation in the Stellar Mass Function of Star Clusters", Monthly Notices of the Royal Astronomical Society, 464, 1977

41. **Webb, J. J.** & Vesperini, E., 2016, "Radial Variation in the Stellar Mass Functions of Star Clusters", Monthly Notices of the Royal Astronomical Society, 463, 2383

42. **Webb, J. J.**, Sills, A., Harris, W.E., Gomez, M., Paolillo, M., Woodley, K.A., Puzia, T.H. 2016, "Globular Cluster Scale Sizes in Giant Galaxies: Orbital Anisotropy and Tidally Under-Filling Clusters in M87, NGC 1399, and NGC 5128", Monthly Notices of the Royal Astronomical Society, 460, 2129

43. Miholics, M., **Webb, J. J.**, Sills, A., 2016, "The Dynamical Evolution of Accreted Star Clusters in the Milky Way", Monthly Notices of the Royal Astronomical Society, 456, 240

44. Miholics, M., **Webb, J.J.**, Sills, A., 2015, "The Dynamics of Multiple Populations in the Globular Cluster NGC 6362", Monthly Notices of the Royal Astronomical Society, 454, 2166

45. **Webb, J.J.** & Leigh, N. 2015, "Back to the Future: Estimating Initial Globular Cluster Masses from their Present Day Stellar Mass Functions", Monthly Notices of the Royal Astronomical Society, 453, 3278

46. Leigh, N., Giersz, M., Marks, M., **Webb, J.J.**, Hypki, A., Heinke, C., Kroupa, P., Sills, A. 2014, "The State of Globular Clusters at Birth II: Primordial Binaries", Monthly Notices of the Royal Astronomical Society, 446, 226

47. Miholics, M., **Webb, J.J.**, Sills, A. 2014, "The Size of Star Clusters Accreted by the Milky Way", Monthly Notices of the Royal Astronomical Society, 445, 2872

48. **Webb, J.J.**, Harris, W.E., Sills, A., Hurley, J.R., 2014, "The Effects of Orbital Inclination on the Scale Size and Evolution of Star Clusters", Monthly Notices of the Royal Astronomical Society, 445, 1048

49. **Webb, J.J.**, Leigh, N., Sills, A., Harris, W.E., Hurley, J.R. 2014, "The Effect of Orbital Eccentricity on the Dynamical Evolution of Star Clusters", Monthly Notices of the Royal Astronomical Society, 442, 1569

50. Leigh, N., Giersz, M., **Webb, J.J.**, Hypki, A., de Marchi, G., Kroupa, P., Sills, A. 2013, "The State of Globular Clusters at Birth: Emergence from the Gas-Embedded Phase", Monthly Notices of the Royal Astronomical Society, 436, 3399

51. **Webb, J.J.**, Sills, A., Harris, W.E. 2013, "Globular Cluster Scale Sizes in Giant Galaxies: The Case of M87 and the Role of Orbital Anisotropy and Tidal Filling", The Astrophysical Journal, 779, 94

52. **Webb, J.J.**, Harris, W.E., Sills, A., Hurley, J.R. 2013, "The Influence of Orbital Eccentricity on Tidal Radii of Star Clusters", The Astrophysical Journal, 764, 124

53. **Webb, J.J.**, Harris, W.E., Sills, A. 2012, "The Size Difference Between Red and Blue Globular Clusters is NOT Due to Projection Effects", The Astrophysical Journal Letters, 759, 39

54. **Webb, J.J.**, Sills, A., Harris, W.E. 2012, "The Observational and Theoretical Tidal Radii of Globular Clusters in M87", The Astrophysical Journal, 746, 93

55. Robertson, D., Collon, P., Henderson, D., Kurtz, S., Lamm, L., Schmitt, C., Schumard, B., **Webb, J.** 2008, "First Results from the Nuclear Astrophysics AMS program at the NSL using the MANTIS system in gas-filled mode", University of Notre Dame, Nuclear Instruments & Methods in Physics Research, vol 266, n15, pp 3481-3486

Non-Refereed Publications:

1. Hénault-Brunet, V., Bahramian, A., Côté, P., Eadie, G., Haggard, D., Harris, W.E., Heinke, C., Lamb, M., Pudritz, R., Roediger, J., Sills, A., Venn, K., **Webb, J.J.**, Woods, T.E. 2019, "Star Clusters Near and Far", Canadian Long Range Plan for Astronomy and Astrophysics White Papers, LRP2020

Submitted Publications:

1. Starkman, N., Nibauer, J., Bovy, J., **Webb, J.J.**, Tavangar K., Price-Whelan, A., Bonaca, A. 2024, "Stream Members Only: Data-Driven Characterization of Stellar Streams with Mixture Density Networks", Submitted

Conference Proceedings:

1. Vesperini, E., Hong, J., **Webb, J.J.**, D'Antona, F., D'Ercole, A, 2020, "Dynamical Effects on the Stellar Mass Function of Multiple Stellar Populations in Globular Clusters", Proceedings of the International Astronomical Union, Volume 351, 346

2. **Webb, J.J.** & Vesperini E. 2016, "On the Radial Variation in the Stellar Mass Functions of Star Clusters", Journal of the Italian Astronomical Society, Vol. 87, 618

3. Miholics, M., **Webb, J.J.**, Sills, A. 2016, "The Dynamical Evolution of Accreted Star Clusters in the Milky Way", Journal of the Italian Astronomical Society, Vol. 87, 642

Invited Colloquia and Seminars:

1. **Webb, J.J**. 2022, "Made-to-Measure Modelling of Globular Clusters", Flatiron Institute, New York, United States

2. **Webb, J.J.** 2022, "Creating and Maintaining Equitable Question Banks for Online Tests", University of Toronto, Canada

3. **Webb, J.J.** 2022, "The Tails that Tidal Tails Tell", Universidad de Concepción, Concepción, Chile

4. **Webb, J.J.** 2021, "Where Have All the Star Cluster Stars Gone?", St. Mary's University, Halifax, Canada

5. **Webb, J.J.** 2021, “With a Little Help from Our Friends: Probing the Milky Way’s Dissolved and Undiscovered Star Cluster Populations with the Help of Existing Star Clusters”, Federal University of Rio Grande do Sul, Porto Alegre, Brazil

6. **Webb, J.J.** 2021, “Where Have All the Star Cluster Stars Gone?”, Astronomical Calculation Institute, Heidelberg, Germany

7. **Webb, J.J.** 2021, “From Planets to the Big Bang: Studying the Universe with Star Clusters”, Universidad Andres Bello, Santiago, Chile

8. **Webb, J.J.** 2021, “Revealing the Milky Way’s Dissolved Star Cluster Population with Dynamics and Chemistry”, Swinburne University of Technology, Melbourne, Australia

9. **Webb, J.J.** 2021, “Revealing the Milky Way’s Dissolved Star Cluster Population with Dynamics and Chemistry”, University of Michigan, Ann Arbor, United States

10. **Webb, J.J.** 2019, “Searching for Solar Siblings with Gaia, APOGEE and N-body Simulations”, McMaster University, Toronto, Canada

11. **Webb, J.J.** 2019, “Candles in the Darkness: Studying Dark Matter Substructure with Globular Clusters”, Canadian Institute for Theoretical Astrophysics, Toronto, Canada

12. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, University of Waterloo, Waterloo, Canada

13. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, University of Toronto, Toronto, Canada

14. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, Queen’s University, Kingston, Canada

15. **Webb, J.J.** 2018, “Do Globular Clusters Have an Identity Problem?”, McMaster University, Hamilton, Canada

16. **Webb, J.J.** 2017, “Do Globular Clusters Have an Identity Problem?”, University of Minnesota, Minneapolis, United States

17. **Webb, J.J.** 2015, “The Dynamical Evolution of Star Clusters in Tidal Fields”, Indiana University, Bloomington, United States

18. **Webb, J.J.** 2014, “The Dynamical Evolution of Star Clusters in Tidal Fields”, Northwestern University, Chicago, United States

19. **Webb, J.J.** 2012, “The Influence of Orbital Eccentricity and Inclination on Globular Cluster Tidal Radii”, Pontificia Universidad Catolica de Chile, Santiago, Chili

20. **Webb, J.J.** 2012, “The Influence of Orbital Eccentricity and Inclination on Globular Cluster Tidal Radii”, Universidad Andrés Bello, Santiago, Chili

21. **Webb, J.J.** 2011, "Observational and Theoretical Tidal Radii of Globular Clusters in M87", Swinburne University of Technology, Melbourne, Australia

Invited Conference Presentations:

1. **Webb, J.J.** 2022, "The Tails that Tidal Tails Tell", Clusters at McMaster, Hamilton, Canada

2. **Webb, J.J.** 2020, "Star Clusters in the Age of Large-Scale Surveys", 23rd Meeting in Research Astronomy, Zanjan, Iran

3. **Webb, J.J.**, Leigh, N.W.C., Serrano, R., Bellovary, J., Ford, K.E.S., McKernan, B., Spera, M., Trani, A.A. 2019, "The Evolution of Kicked Stellar-Mass Black Holes in Star Cluster Environments", The Origin of Black Hole Mergers and Gravitational Waves, Leiden, Netherlands

4. **Webb, J.J.** 2018. "Internal Globular Cluster Effects that Alter Their Evolution", Survival of Dense Star Clusters in the Milky Way System, Keynote Speaker, Heidelberg, Germany

5. **Webb, J.J.**, Bovy, J., Carlberg, R. 2018. "The Effects of Dark Matter Substructure of Star Cluster Evolution", Star Clusters around the Milky Way and the Local Group, Heidelberg, Germany

6. **Webb, J.J.**, Leigh, N., McKernan, B., Ford, S. 2016, "The Evolution of Black Holes in Star Cluster Environments", MODEST 16NYC, New York, USA

Conference Presentations:

1. **Webb, J.J.**, Ivetic, M., Cai, M., Portegies-Zwart, S. 2022, "The Evolution of Planetary Systems within Star Clusters and Stellar Streams", 54th Annual Meeting of the Division for Planetary Sciences, London, Canada

2. **Webb, J.J.** & Sills, A. 2021, " The Initial Properties of Young Star Clusters in M83", European Astronomical Society Annual Meeting 2021

3. **Webb, J.J.** 2021, "CLUSTERTOOLS: A Python Software Package for Analysing Star Cluster Simulations", MODEST 21a

4. **Webb, J.J.** 2021, "How Do Dwarf Galaxies affect the Orbital Evolution of Globular Clusters and their Tidal Tails", Streams 2021, Flatiron Institute

5. **Webb, J.J.** & Bovy, J. 2018, "A Direct N-body Simulation of Pal5 and its Tidal Tails", MODEST 18, Santorini, Greece

6. **Webb, J.J.** & Vesperini E., 2016, "Radial Variation in the Stellar Mass Functions of Star Clusters", MODEST 16, Bologna, Italy

7. **Webb, J.J.**, Sills, A., Harris, W.E., Gomez, M., Paolillo, M., Woodley, K.A., Puzia, T.H. 2015, "Globular Cluster Scale Sizes in Giant Galaxies: Orbital Anisotropy and Tidally Under-Filling Clusters in M87, NGC 1399, and NGC 5128", MODEST 15, Conception, Chile

8. **Webb, J.J.**, Sills, A., Harris, W.E., Gomez, M., Paolillo, M., Woodley, K.A., Puzia, T.H. 2015, "Globular Cluster Scale Sizes in Giant Galaxies: Orbital Anisotropy and Tidally Under-Filling Clusters in M87, NGC 1399, and NGC 5128", Canadian Astronomical Society, Annual Meeting

9. **Webb, J.J.**, Harris, W.E., Sills, A., Hurley, J. R. 2012, The Influence of Orbital Eccentricity on Globular Cluster Tidal Radii, Canadian Astronomical Society, Annual Meeting

10. **Webb, J.J.**, Sills, A., Harris, W.E., 2011, The Observational and Theoretical Tidal Radii of Globular Clusters in M87, Canadian Astronomical Society, Annual Meeting

Conference Posters:

1. **Webb, J.J**. 2022, "Made-to-Measure Modelling of Globular Clusters", Astronomical Data Analysis Software and Systems Conference Series, Victoria, Canada

2. **Webb, J.J.**, Bovy, J., Ivetic,M., Sills, A. 2022, "The Tales that Tidal Tails Tell", Canadian Astronomical Society, Annual Meeting

3. **Webb, J.J.,** El Falou, N., Garrow, T., Pavanel, N. 2021, "The Effects of Dark Matter Substructure on the Evolution of Globular Clusters and their Tidal Tails", Canadian Astronomical Society, Annual Meeting

4. **Webb, J.J.** & Bovy, J. 2020, "High-Resolution Simulations of Dark Matter Subhalo Disruption in a Milky Way-like Tidal Field", Canadian Astronomical Society, Annual Meeting

5. **Webb, J.J.**, Sills, A., Harris, W.E., Hurley, J.R. 2014, "The Effects of Orbital Inclination on the Scale Size and Evolution of Tidally Filling Star Clusters", Stellar *N*-body Dynamics, Sexten Centre for Astrophysics, Sexten, Italy

6. **Webb, J.J.**, Harris, W.E., Sills, A., 2013, "Observationally and Theoretically Determining the Size of Globular Clusters in M87", Small Stellar Systems in Tuscany, Prato, Italy

7. **Webb, J.J.**, Sills, A., Harris, W.E., 2010, "The Tidal Radii of Globular Clusters in M87", Canadian Astronomical Society, Annual Meeting

Magazine Entries:

1. Harris, W.E. & **Webb, J.J.**, 2014, "Life Inside a Globular Cluster", Astronomy Magazine, June 2014, Kalmbach Publishing Company