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**Department of Astronomy and
Astrophysics
Faculty of Arts and Science
University of Toronto**

JEREMY J. WEBB

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Research and Pedagogical Interests

Star Cluster and Galaxy Dynamics, Exoplanetary Systems, Dark Matter, Astrostatistics, Active Learning Techniques, Universal Design for Learning, Backwards Course Design, Curriculum Development

Experience

- 2019 - **University of Toronto, Toronto, ON, Canada**
Assistant Professor – Contract Limited Term Appointment
Additional Roles: Undergraduate Chair, Postdoctoral Fellow Liaison, Postdoctoral Fellow Mentor, Summer Undergraduate Research Program Faculty Chair, Undergraduate Program Committee, SDSS-IV Collaboration Member, GIRMOS Science Team Member
- 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 Waterloo, 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
- 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:

2018-present: Nathaniel Starkman, University of Toronto (with Jo Bovy)

2021-present: Steffani Grondin, University of Toronto (with Maria Drout)

2021-present: Jacob Meadus, University of Toronto

MSc. Students:

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

2021-present: Milica Ivetic, BSc., University of Toronto

2021-present: Eric Conenna, BSc., University of Toronto

2021-present: Erik Gillis, BSc., University of Toronto

2020-2021: Reem Khalifeh, BSc., University of Toronto

2020-2021: Nada El-Falou, BSc., University of Toronto

2019-2021: Nicholas Pavanel, BSc., University of Toronto

2019: Turner Garrow, BSc., University of Toronto (with Jo Bovy)

2017-2018: Shaziana Kaderali, BSc., University of Toronto (with Jason Hunt)

2017-2018: Amy Fare, BSc., McMaster University (with Alison Sills)

Research Grants & Awards

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

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** – ESO VLT Survey Telescope, 2 Nights, “The Dynamical Age and Initial Mass Function of the Globular Cluster 47 Tuc”

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

- 2019-2021: **Assistant Professor**, Astronomy 101 (The Sun and its Neighbours), Astronomy 201 (Stars and Galaxies), Astronomy 222 (Galaxies and Cosmology), University of Toronto
- 2011-2015: **Teaching Assistant and Substitute Lecturer**, The Big Questions, Arts & Science Physics, McMaster University
- 2009-2015: **Teaching Assistant**, Planetary Dynamics, Observational Cosmology, Introductory Mechanics, Waves and Electromagnetism, McMaster University

Continuing Education in Pedagogy

- 2021: **Designing Better Assignments**, Centre for Teaching Support & Innovation
- 2020: **Planning and Preparing Online Courses, Teaching from a Distance, Connecting and Interacting with Your Students Online, Adapting Experiential Learning and Work-Integrated Learning to Remote Delivery, Creating Equitable Classrooms, Developing LGBTQ+ Inclusive Teaching Practices, Active Learning for Online Teaching**, Centre for Teaching Support & Innovation
- 2019: **Instructor Summer School, Tune into Teaching: Setting the Tone for Success, Best Practices in Teaching First Year Foundations Seminars, Introduction to Quercus Learning Management System**, Centre for Teaching Support & Innovation
- 2014: **Principles and Practices of University Teaching**, McMaster University

Select Outreach Experience

- 2021: **Project Supervisor**, Visions of Science, “Exoplanets Orbiting Solar Sibling Candidates”
- 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. El-Falou, N. & **Webb, J.J.** 2021, “The Effect of Dwarf Galaxies on the Tidal Tails of Globular Clusters”, Monthly Notices of the Royal Astronomical Society, Accepted, arXiv:2111.13715
2. **Webb, J.J.** & Bovy, J. 2021, “Variation in the Stellar Mass Function Along Stellar Streams”, Monthly Notices of the Royal Astronomical Society, Accepted, arXiv:2108.0221
3. Pavanel, N. & **Webb, J.J.** 2021, “The Effects of Λ CDM Substructure on the Orbital Evolution of Star Clusters”, Monthly Notices of the Royal Astronomical Society, 503, 1932
4. 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
5. **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
6. **Webb, J.J.** & Sills, A. 2021, “The Initial Properties of Young Star Clusters in M83”, Monthly Notices of the Royal Astronomical Society, 501, 1933
7. **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, 449, 116
8. 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
9. 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
10. 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
11. **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
12. 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

13. 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
14. 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
15. **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
16. **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
17. 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
18. **Webb, J.J.**, Reina-Campos, M., Kruijssen, J.M.D. 2019, “On the Systematic Characterisation of Cluster Disruption by Tidal Shocks”, *Monthly Notices of the Royal Astronomical Society*, 486, 5879
19. **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
20. 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
21. 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
22. 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
23. **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
24. 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

25. 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
26. 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
27. **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
28. **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
29. **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
30. **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
31. **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
32. **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
33. 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
34. 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
35. **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
36. 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
37. 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

38. **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
39. **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
40. 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
41. **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
42. **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
43. **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
44. **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
45. 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

Submitted Publications:

1. Eadie, G.M., **Webb, J.J.**, Rosenthal, J.S. 2021, “Bayesian Inference of Globular Cluster Properties Using Distribution Functions”, *The Astrophysical Journal*, Submitted, arxiv:2108.13491
2. **Webb, J.J.** & Bovy, J. 2021, “Variations in the Stellar Mass Function along Stellar Streams”, *Monthly Notices of the Royal Astronomical Society*, Submitted, arxiv:2018.02217
3. El-Falou, N. & **Webb, J.J.** 2021, “The Effect of Dwarf Galaxies on the Tidal Tails of Galactic Globular Clusters”, *Monthly Notices of the Royal Astronomical Society*, Submitted

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

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.** 2021, “Where Have All the Star Cluster Stars Gone?”, St. Mary’s University, Halifax, Canada
2. **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
3. **Webb, J.J.** 2021, “Where Have All the Star Cluster Stars Gone?”, Astronomical Calculation Institute, Heidelberg, Germany
4. **Webb, J.J.** 2021, “From Planets to the Big Bang: Studying the Universe with Star Clusters”, Universidad Andres Bello, Santiago, Chile
5. **Webb, J.J.** 2021, “Revealing the Milky Way’s Dissolved Star Cluster Population with Dynamics and Chemistry”, Swinburne University of Technology, Melbourne, Australia
6. **Webb, J.J.** 2021, “Revealing the Milky Way’s Dissolved Star Cluster Population with Dynamics and Chemistry”, University of Michigan, Ann Arbor, United States
7. **Webb, J.J.** 2019, “Searching for Solar Siblings with Gaia, APOGEE and N-body Simulations”, McMaster University, Toronto, Canada
8. **Webb, J.J.** 2019, “Candles in the Darkness: Studying Dark Matter Substructure with Globular Clusters”, Canadian Institute for Theoretical Astrophysics, Toronto, Canada
9. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, University of Waterloo, Waterloo, Canada
10. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, University of Toronto, Toronto, Canada
11. **Webb, J.J.** 2018, “The Dynamics of Mass Segregation and Tidal Stripping”, Queen’s University, Kingston, Canada
12. **Webb, J.J.** 2018, “Do Globular Clusters Have an Identity Problem?”, McMaster University, Hamilton, Canada
13. **Webb, J.J.** 2017, “Do Globular Clusters Have an Identity Problem?”, University of Minnesota, Minneapolis, United States

14. **Webb, J.J.** 2015, “The Dynamical Evolution of Star Clusters in Tidal Fields”, Indiana University, Bloomington, United States
15. **Webb, J.J.** 2014, “The Dynamical Evolution of Star Clusters in Tidal Fields”, Northwestern University, Chicago, United States
16. **Webb, J.J.** 2012, “The Influence of Orbital Eccentricity and Inclination on Globular Cluster Tidal Radii”, Pontificia Universidad Catolica de Chile, Santiago, Chili
17. **Webb, J.J.** 2012, “The Influence of Orbital Eccentricity and Inclination on Globular Cluster Tidal Radii”, Universidad Andrés Bello, Santiago, Chili
18. **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.** 2020, “Star Clusters in the Age of Large-Scale Surveys”, 23rd Meeting in Research Astronomy, Zanzan, Iran
2. **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
3. **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
4. **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
5. **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.** & Sills, A. 2021, " The Initial Properties of Young Star Clusters in M83", European Astronomical Society Annual Meeting 2021
2. **Webb, J.J.** 2021, "CLUSTERTOOLS: A Python Software Package for Analysing Star Cluster Simulations", MODEST 21a,
3. **Webb, J.J.** 2021, "How Do Dwarf Galaxies affect the Orbital Evolution of Globular Clusters and their Tidal Tails", Streams 2021, Flatiron Institute
4. **Webb, J.J.** & Bovy, J. 2018, “A Direct N-body Simulation of Pal5 and its Tidal Tails”, MODEST 18, Santorini, Greece
5. **Webb, J.J.** & Vesperini E., 2016, “Radial Variation in the Stellar Mass Functions of Star Clusters”, MODEST 16, Bologna, Italy

6. **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, Concepcion, Chile
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”, Canadian Astronomical Society, Annual Meeting
8. **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
9. **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.**, 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
2. **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
3. **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
4. **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
5. **Webb, J.J.**, Sills, A., Harris, W.E., 2010, “The Tidal Radii of Globular Clusters in M87”, Canadian Astronomical Society, Annual Meeting

Software Released:

1. **Webb, J.J.** 2020, “clustertools”, DOI:10.5281/zenodo.4087227, <https://clustertools.readthedocs.io/en/latest/>

Magazine Entries:

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