

Curriculum Vitae

Connor Jackman

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Employment

- Postdoc, Mathematical Sciences Research Institute 2018

Education

- Ph.D. Mathematics, University California Santa Cruz 2018
- M.S. Mathematics, University California Santa Cruz 2013
- B.A. Mathematics, University Nevada Reno 2011

Interests

- Celestial mechanics, differential geometry, dynamical systems
- Astronomy, skiing, snorkeling, baseball, guitar, science fiction

Papers

- *On the sectional curvature along central configurations*, Regular and Chaotic Dynamics, 2018, vol. 23, no. 7-8, pp. 961-973 (with Josué Meléndez).
- *Hyperbolic Shirts fit a 4-body Problem*, Journal of Geometry and Physics Volume 123, January 2018 pp 173-183 (with Josué Meléndez).
- *No Hanging Out In Neighborhoods of Infinity in the Three-body Problem*, Celestial Mechanics and Dynamical Astronomy June 2017, Volume 128, Issue 23, pp 183-195.
- *No Hyperbolic Pants On the 4-body Problem*, Pacific Journal of Mathematics 280-2, 2016, pp 145–154. (with Richard Montgomery).

Awards

- Chancellor's Dissertation Fellowship, UCSC (2017)
- Chateaubriand Fellowship, IMCCE Observatoire de Paris (2017)
- Summer Regents Fellowship, UCSC (2016)

Teaching

- Directed reading program mentor Spring 2018
Supervised undergraduate reading course on celestial mechanics
- COSMOS Teaching Assistant Summer 2015
Assisted with problem sets/discussion sections for high school summer math program on graph theory and number theory
- UCSC Lecturer and Teaching Assistant 2012-2018
Taught vector calculus, real analysis. Led sections in calculus, vector calculus, differential equations, linear algebra, real/complex analysis, introduction to proofs, introductory physics
- San Leandro High School January 2011-June 2012
Led after school math sections
- UNR Math Center August 2010-December 2011
Tutored students in upper and lower division math/physics related coursework

Talks

- 3/2019: Differential Geometry Seminar, CIMAT Guanajuato “Path Geometry of the Kepler problem”
- 11/2018: MSRI, Hamiltonian systems from topology to applications through analysis, “Differential geometry techniques in the strong force 4-body problem”
- 8/2018: VI Iberoamerican meeting, CIMAT, “Studying N -body problems with the geometry of the Jacobi-Maupertuis metric”
- 7/2018: UAM-Iztapalapa Seminar, “Barrios del infinito y la búsqueda para syzygies”
- 1/2018: Joint Mathematics Meetings, San Diego, “The Jacobi-Maupertuis principle in the strong force N -body problem”
- 12/2017: UCSC Quantum Mechanics seminar, “Hidden symmetries in the Kepler problem”
- 4/2017: Observatoire de Paris Séminaire ASD, “Holomorphic sectional curvatures along relative equilibria”
- 3/2017: Observatoire de Paris Groupe de travail sur le problème des N corps, “On The Maupertuis Principle”
- 2/2017: Observatoire de Paris Groupe de travail sur le problème des N corps, “On syzygy sequences in the lunar regions”
- 10/2016: UCSC Undergraduate Seminar, “The Principle of Least action in the Kepler problem”.
- 9/2016: IIMAS Mathematics Colloquium Mexico City, “A Hyperbolic Shirt fits the 4-body problem”.
- 9/2016: Universidade Federal do Rio de Janeiro Ergodic theory seminar, “A Hyperbolic Shirt fits the 4-body problem”.
- 8/2016: Richard Montgomery’s 60th in Guanajuato Mexico, “Anosovity in the strong force N -body problem?”
- 4/2016: Bay Area Differential Geometry Seminar, “Holomorphic Sectional Curvatures for the Strong Force N -body Problem”.
- 1/2016: UCSC Graduate Seminar, “Hanging out in Neighborhoods of Infinity”.
- 10/2015: AMS sectional meeting Cal state Fullerton, “ N -body Problems and Pants”.
- 5/2015: UCSC Geometry and Analysis Seminar, “Fitting Pants to N -body problems”.
- 12/2014: UCSC Undergraduate Seminar, “Geodesics on Surfaces”.

References

- Richard Montgomery
Professor, University of California Santa Cruz
E-mail: rmont@ucsc.edu
- Jacques Féjoz
Professor, Université Paris-Dauphine
E-mail: jacques.fejoz@obspm.fr
- Jie Qing
Professor, University of California Santa Cruz
E-mail: qing@ucsc.edu
- Josué Meléndez
Professor, Universidad Autónoma Metropolitana, Mexico City
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