Carl Rodriguez | Publication List

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First Author Papers (with links)

Redshift Evolution of the Black Hole Merger Rate From Globular Clusters *2018*
C. L. Rodriguez, *A. Loeb*; ApJL (submitted)

A Triple Origin for the Heavy and Low-Spin Binary Black Holes Detected by LIGO/Virgo **ApJ** *2018*
C. L. Rodriguez, *F. Antonini*; ApJ, **863**, 1, 7

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C. L. Rodriguez, *B. Pattabiraman*, *S. Chatterjee*, *M. Morscher*, *F. Rasio*, *A. Choudhary*, *W-K. Liao*; CompAC (submitted)

Post-Newtonian Dynamics in Dense Star Clusters: Highly-Eccentric, Highly-*Spinning, and Repeated Binary Black Hole Mergers* **PRL** *2018*
C. L. Rodriguez, *P. Amaro-Seoane*, *S. Chatterjee*, *F. Rasio*; Phys. Rev. Lett, **120**, 151101
- Articles in *Boston Globe*, *MIT News* (Links),

Illuminating Black Hole Binary Formation Channels with Spins in Advanced LIGO **ApJL** *2016*
C. L. Rodriguez, *M. Zevin*, *C. Pankow*, *V. Kalogera*, *F. Rasio*; ApJL, **832**, L2

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C. L. Rodriguez, *C.-J. Haster*, *S. Chatterjee*, *V. Kalogera*, *F. Rasio*; ApJL, **824**, L8
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Inadequacies of the Fisher Information Matrix in gravitational-wave parameter *estimation* — **PRD** *2013*
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C. L. Rodriguez, I. Mandel, J. Gair; Phys. Rev. D, **85**, 6, 062002
- Synopsis in *Astrobites* (Link)

Second Author Papers (with links)

Precessional Dynamics of Black Hole Triples: Binary Mergers with near-zero Effective Spin — **MNRASL** *2018*
F. Antonini, C. L. Rodriguez, C. Petrovich, C. Fischer; MNRAS Letters, **480**, 1, L58

Distinguishing Between Formation Channels for Binary Black Holes with LISA — **ApJL** *2016*
K. Breivik, C. L. Rodriguez, S. Larson, V. Kalogera, F. Rasio; ApJL, **830**, L18

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Contributing Author (with links)

Accreting Black Hole Binaries in Globular Clusters — **ApJ** *2017*
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M. Zevin, C. Pankow, C. L. Rodriguez, L. Sampson, E. Chase, V. Kalogera, F. Rasio; ApJ, **846**, 82Z

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Collaboration Papers

Coauthor on 23 Collaboration Papers as a Member of the LIGO Scientific Collaboration
Click Here for Full List of Citations — *2011-2015*

- Characterization of the LIGO detectors during their sixth science run
- Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors
- Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors
- Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run
- Gravitational Waves from Known Pulsars: Results from the Initial Detector Era
- First Searches for Optical Counterparts to Gravitational-wave Candidate Events
- Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts

- Directed search for continuous gravitational waves from the Galactic center
- Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network
- A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007
- Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data
- Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010
- Swift Follow-up Observations of Candidate Gravitational-wave Transient Events
- Search for Gravitational Waves Associated with Gamma-Ray Bursts during LIGO Science Run 6 and Virgo Science Runs 2 and 3
- The characterization of Virgo data and its impact on gravitational-wave searches
- All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run
- Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz
- Search for gravitational waves from intermediate mass binary black holes
- First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts
- Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3
- Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts
- All-sky search for periodic gravitational waves in the full S5 LIGO data
- A gravitational wave observatory operating beyond the quantum shot-noise limit