Jesús Rafael Oliver

Email: jesus.oliver@csueastbay.edu  
Website: www.csueastbay.edu/csci/departments/math/

Academic history

University of California, San Diego  
• Ph.D. in Pure Mathematics; Advisor: Jacob Sterbenz  
• Thesis Title: “A Vector Field Method for Non-Trapping Spacetimes”

University of California, Los Angeles  
• M.A. in Pure Mathematics; B.S. in Pure Mathematics

Work experience

**Assistant Professor**  
California State University, East Bay  
09/2016 to Present

**Lecturer**  
University of California, San Diego  
09/2013 to 08/2016

**Postdoctoral Fellow**  
Institut Henri Poincaré, Paris, France  
09/2015 to 12/2015

Research publications

- J. Oliver, J. Sterbenz. A Vector Field Method for Radiating Black Hole Spacetimes. Analysis and PDE. Vol. 13 (2020) no. 1, 29-92.  
  Preprint: https://arxiv.org/pdf/1705.10714.pdf
- J. Oliver. A Vector Field Method for Non-Trapping, Radiating Spacetimes. Journal of Hyperbolic Diff. Eq. 13 (2016) no. 4, 735-790  
  Preprint: http://arxiv.org/pdf/1410.5154.pdf

Math education publications

- J. Oliver, J. Olkin. A Community of Practice Model for Infusing Active Learning in the Classroom.  
  (To appear: PRIMUS)

Invited research talks

- AMS Sectional Meeting, Special Session on “Wave Phenomena in Fluids and Relativity,” University of Wisconsin-Madison, 2019
- Mathematics Colloquium, Santa Clara University, 2019
- General Relativity Seminar, Centre for Mathematical Analysis, Geometry, and Dynamical Systems, Lisboa, Portugal, 2018
- Math/Stats Colloquium, San Jose State University, 2017
- Research in Pairs, Mathematical General Relativity, Institut Henri Poincaré, Paris, France, 2017
- Workshop on Global Nonlinear Stability of Einstein Spacetimes, Oberwolfach, Germany, 2016
- Mathematical General Relativity Seminar, Institut Henri Poincaré, Paris, France, 2015
- General Relativity and Gravitation: A Centennial Perspective, Penn State University, 2015
- Analysis Seminar, Georgia Southern University, 2015
- Analysis Seminar, University of Maryland, College Park, 2015
- Analysis Seminar, University of California, Los Angeles, 2015
AMS Fall Western Sectional Meetings, San Francisco, 2014
Analysis and PDE Seminar, University of California, Berkeley, 2014
Differential Equations Seminar, University of Michigan, Ann Arbor, 2014
Analysis Seminar, University of California, Los Angeles, 2014
Analysis Seminar, University of California, San Diego, 2014
AMS Session on PDE, AMS-MAA Joint Math Meetings, Baltimore, 2014

Invited math education talks

• JMM/AMS Joint Mathematics Meetings: MAA Contributed Paper Session on Active Learning in Introductory Courses, Denver, 2020
• Progress Through Calculus/SEMINAL Joint Meeting, Nebraska, 2019

Research conferences and workshops attended

• 22nd International Conference on General Relativity and Gravitation, Valencia, Spain 2019
• Southern California Analysis and PDE Conference, UC San Diego, CA 2018
• Joint Mathematics Meetings, San Diego, CA 2018
• Joint Mathematics Meetings, Atlanta, GA 2017
• Mathfest, Columbus, OH, 2016
• General Relativity – A Celebration of the 100th Anniversary, IHP, Paris, France, 2015
• Dynamics of Self-Gravitating Fields, Institut Henri Poincaré, Paris, France, 2015
• Recent Advances in General Relativity, Institut Henri Poincaré, Paris, France, 2015
• Blackwell-Tapia Conference, IPAM, Los Angeles, 2014
• BIRS Workshop on Dynamics in Geometric and Dispersive Equations, Banff, 2014
• Initial Data and Evolution Problems in General Relativity, MSRI, Berkeley, 2013
• Southern California PDE Conference, University of California, Los Angeles, 2013
• General Relativity Summer School, MSRI, Berkeley, 2012
• Nonlinear Evolution Equations, Northwestern University, 2012
• SIAM PDE Conference, San Diego, 2011
• Southern California PDE Conference, University of California, Irvine, 2011
• Global Properties of Hyperbolic Equations, Imperial College, London, 2011
• Southern California PDE Conference, University of California, San Diego, 2010
• General Relativity and Nonlinear PDE, University of Granada, Spain, 2010
• Southern California PDE Conference, University of California, Irvine, 2009
• Formation of Black Holes “Hot Topics” Workshop, MSRI, Berkeley, 2009
• Summer School in Analysis and Geometry, Princeton University, 2009

Grants and fellowships

| Year   | Award name                                          | Funding organization         |
|--------|----------------------------------------------------|------------------------------|
| 2019-2020  | Faculty Support Grant                              | CSU East Bay                 |
| 2018-2020  | SEMINAL Phase 2 Grant                              | APLU/NSF                     |
| 2017-2018  | Faculty Support Grant                              | CSU East Bay                 |
| 2017-2018  | Course Redesign with Technology Grant              | CSU Chancellor’s Office      |
| 2016 –2017  | Research in Pairs, Paris, France                   | IHP                          |
| 2015       | Postdoctoral Fellowship, IHP-ANR, Paris, France    | IHP-ANR Lyon                 |
| 2008 - 2010 | Eugene Cota-Robles Fellowship                      | UCSD                         |
| 2008       | Ford Foundation Fellowship (honorable mention)     | Ford Foundation              |