

# Jesús Rafael Oliver

---

Email: [jesus.oliver@csueastbay.edu](mailto:jesus.oliver@csueastbay.edu)

Website: [www.csueastbay.edu/csci/departments/math/](http://www.csueastbay.edu/csci/departments/math/)

## Academic history

---

University of California, San Diego 2008 - 2013

- Ph.D. in Pure Mathematics; Advisor: Jacob Sterbenz
- Thesis Title: "A Vector Field Method for Non-Trapping Spacetimes"

University of California, Los Angeles 2003 - 2006

- M.A. in Pure Mathematics; B.S. in Pure Mathematics

## Work experience

---

<b>Assistant Professor</b>	09/2016 to Present
California State University, East Bay	
<b>Lecturer</b>	09/2013 to 08/2016
University of California, San Diego	
<b>Postdoctoral Fellow</b>	09/2015 to 12/2015
Institut Henri Poincaré, Paris, France	

## 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

---

- 22<sup>nd</sup> 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 100<sup>th</sup> 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