

*Curriculum Vitae*  
**Esley Scatena**  
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### About me

I've been working on higher order theories since my doctorate thesis, dealing with the instabilities of the theories, ghosts and loss of unitarity (both electromagnetism and gravitation). Since then, I've come across Lorentz invariance violation, non-commutative theories and other theories beyond the standard model. Based on past experience on finding bounds on the photon's mass, I've been searching for standard theories deviations and looking for fundamental aspects that could be responsible for those deviations. In doing so, I've become interested in modified theories of gravity and electromagnetism. Currently, I am developing a systematic study of how these modified theories could manifest themselves through gravitational waves profiles.

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### Education

<i>October 2013— March 2016</i>	<b>Degree:</b> Postdoc in Physics <b>Where:</b> São Paulo State University - UNESP, Guaratinguetá - SP
<i>July 2008— September 2012</i>	<b>Degree:</b> PhD in Theoretical Physics <b>Where:</b> Institute for Theoretical Physics - IFT/UNESP, São Paulo - SP
<i>March 2006— April 2008</i>	<b>Degree:</b> MSc in Theoretical Physics <b>Where:</b> Institute for Theoretical Physics - IFT/UNESP, São Paulo - SP
<i>February 2001— December 2005</i>	<b>Degree:</b> BS in Physics <b>Where:</b> University of São Paulo - IFSC/USP, São Carlos - SP

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### Teaching

<i>March 2016— until now</i>	<b>Position:</b> Assistant Professor <b>Where:</b> Dept. of Exact Sciences and Education - UFSC/Brazil
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- Supervisor of the Physics Educational Laboratory (2017-2018)
- Subcoordinator of the master's program in physics teaching (2018 - 2020);
- Coordinator of the master's program in physics teaching (2020 - 2022);
- Department's Coordinator of the Outreach Program (2022- now)

### Honors and awards

- Honorable mention to the essay "Solving the Riddle of the Incompatibility Between Renormalizability and Unitarity in N-Dimensional Einstein Gravity Enlarged by Curvature-Squared Terms", Gravity Research Foundation (2013)
- Honorable mention to the essay "Combining Together Gravity, Massive QED and the Very Long Baseline Interferometry to Gravitationally Constrain the Photon Mass", Gravity Research Foundation (2010)