

## CURRICULUM VITAE – CELIA ESCAMILLA RIVERA

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### PERSONAL INFORMATION

Full name: Celia del Carmen  
Escamilla Rivera.  
Birth Date: December 29th 1984.  
Born Place: Cd. del Carmen, Campe-  
che, Mexico.  
Civil Status: Single.  
Nationality: Mexican.  
CURP: EARC841229MCCSVL03.  
NIE Spanish Y1235907-Q.



### CURRENT OFFICE ADDRESS

Departamento de Física  
Universidade Federal do Espirito Santo  
Av. Fernando Ferrari 514  
Vitoria, ES, 29075-910  
Brazil  
Phone: +52 9612117127  
[cescamilla@mctp.mx](mailto:cescamilla@mctp.mx)  
<http://celrivera.wix.com/cosmology>

### HOME ADDRESS

Calle 46 No. 36 entre 33 y 35. Colonia Tila.  
Cd. del Carmen, Campeche, Mexico  
C.P. 24170  
Tel: +52 01(938)3825442  
[celia.escamillarivera@gmail.com](mailto:celia.escamillarivera@gmail.com)

### PROFESIONAL EDUCATION

**Universidade Federal do Espirito Santo** Vitoria, Brazil.  
***CNPq Postdoctoral Fellow.***  
May 2015 → May 2016  
Supervisor: Prof. Julio Fabris

**University of Nottingham** Nottingham, United Kingdom.  
***Postdoctoral Researcher.***  
February 2014 → May 2014  
Supervisor: Prof. Ed Copeland

**University of Basque Country** Bilbao, Spain.  
**University of Oxford** Oxford, United Kingdom.  
July 2010 → February 2014  
***Doctor in Science, Technology and Space Observation.***  
Advisor: Dra. Ruth Lazkoz Sáez  
Supervisor: Prof. Pedro Gil Ferreira  
Thesis title: *Cosmodynamical issues in an accelerated universe.*  
Result: Outstanding award and Doctor International

by University of Oxford.  
Professional license number: *In process*.

**University of Guanajuato** León, Guanajuato, Mexico.  
January 2008 → January 2010  
***Master in Physics.***  
Advisors: Dr. Octavio Obregón Díaz  
and Dr. Luis Arturo Ureña López  
Thesis title: *What local supersymmetry can do for cosmology.*  
Result: Summa Cum Laude.  
Professional license number: 7555986.

**University of Guanajuato** León, Guanajuato, Mexico.  
August 2003 → May 2008  
***Licenciado in Physics.***  
Advisors: Dr. Octavio Obregón Díaz  
and Dr. Gerardo García Jiménez  
Thesis title: *Quantum and classical closed string tachyon.*  
Result: Cum Laude.  
Professional license number: 605185.

**Centro de Estudios Tecnológicos,  
Industrial y de Servicios No. 20  
(CETis No. 20)** Cd. del Carmen, Campeche, Mexico.  
***High school with Technical Career in Internal Combustion Engines.***  
June 2000 → June 2003  
Result: Outstanding Record Average.  
Professional license number: *In process*.

PROFESIONAL  
HISTORY

**Universidade do Espirito Santo** Vitoria, Brazil.  
May 2015 → April 2016  
CNPq Postdoctoral Fellow.

**Mesoamerican Centre for Theoretical  
Physics MCTP/ICTP** Chiapas, Mexico.  
May 2014 → July 2015  
Professor Junior Associate Researcher.

**University of Nottingham** Nottingham, United Kingdom.  
March 2014 → May 2014  
Supervisor: Prof. Ed Copeland  
Postdoctoral Researcher visitor.

**University of Oxford** Oxford, United Kingdom.  
May 2011 → August 2011  
Supervisor: Prof. Pedro Gil Ferreira  
Astrophysics Researcher PhD student.

**University of Utrecht** Utrecht, The Netherlands.  
August 2008 → August 2008

Researcher Graduate Student.

**University of Buenos Aires**

Buenos Aires, Argentina.

August 2007 → August 2007

Researcher visitor Undergraduate Student.

**University of Cambridge, DAMTP**

Cambridge, United Kingdom.

October 2006 → November 2006

Supervisor: Prof. Fernando Quevedo

Researcher visitor Undergraduate Student.

HONORS

**2015** → **2016** CNPq Fellowship. Brazil.

**2014** → **2017** National Researcher Level 1 (Sistema Nacional de Investigadores SNI 1).

**2014** Doctor International by University of Basque Country and University of Oxford.

**2014** Doctor Degree Outstanding Award by University of Basque Country.

**2012** Studentship for the Marcel Grossmann Meeting 2012 in Stockholm. MG13.

**2012** Support by Basque Research Group 31720ELBE.

**2011** Support by Basque Government through the research project AE-2010-1-31.

**2010** Young Prize in Academic Research. Government of Campeche. Mexico.

**2010** → **2014** Scholarship Fundación Pablo García. Campeche. Mexico.

**2010** → **2013** Scholarship FUNDEC. Campeche. Mexico.

**2010** Invitation to the Summer School in Cosmology. Abdus Salam International Center for Theoretical Cosmology (ICTP). Trieste, Italy.

**2010** Summa Cum Laude for Master Thesis and Academic Research. León, Guanajuato, Mexico.

**2009** → **Present** Research Fellow of the Advanced Institute of Cosmology. Academia de Ciencias. Mexico.

**2008** Studentship Julius School of Physics and Astronomy. University of Utrecht. The Netherlands.

**2008** Scholarship for Master degree. CONACYT. Mexico.

**2008** Cum Laude for Bachelor Thesis and Academic Research. León, Guanajuato, Mexico.

**2007** Medal 1er. Class Bachelor in Physics. University of Guanajuato. Mexico.

**2007** Studentship SNI Level III as Assistant Professor. University of Guanajuato. Mexico.

**2006** Studentship International Relationship of the University of Guanajuato and University of Cambridge.

**2003** Finalist in the Physics National Contest SEP-SEIT-DGETI. Mexico.

**2003** First Prize in the Physics State Contest SEP-SEIT-DGETI. Campeche, Mexico.

**2000** Award for Best Student (Junior High School). SECUD and Government of Mexico.

MEMBERSHIP OF  
PROFESSIONAL  
ORGANISATIONS

**2014** → **2017** National Researcher Level 1 (SNI 1).

**2013** → **Present** Member of Mas Ciencia por Mexico, A.C. (Editorial Board).

**2009** → **Present** Research Fellow of the Advanced Institute of Cosmology. Academia de Ciencias. Mexico.

PAPERS (SUBMITTED  
OR ACCEPTED)

1. Escamilla-Rivera, Celia; K. Sravan Kumar, Juan C. Bueno Sanchez, Paulo Vargas Moniz, Joao Marto. *DBI Galileon inflation in the light of Planck 2015* [arXiv:1504.01348](https://arxiv.org/abs/1504.01348)

2. Castellanos, E; Escamilla-Rivera, Celia; Macías, A. and Nunez, D. *Scalar Field as a Bose-Einstein Condensate?*. JCAP11 (2014) 034. [arXiv:1310.3319\[gr-qc\]](https://arxiv.org/abs/1310.3319) DOI: 10.1088/1475-7516/2014/11/034

3. Montiel, Ariadna; Lazkoz, Ruth; Sendra, I; Escamilla-Rivera, Celia and Salzano, V. *Nonparametric reconstruction of the cosmic expansion with Loess-Simex*. Phys. Rev. D89 (2014) 043007. [arXiv:1401.4188\[astro-ph.CO\]](https://arxiv.org/abs/1401.4188) DOI: 10.1103/PhysRevD.89.043007

4. Lazkoz, Ruth; Alcaniz, J; Escamilla-Rivera, Celia; Salzano, V. and Sendra, I. *BAO Cosmography*. JCAP 12 005 (2013). [arXiv:1311.6817\[astro-ph.CO\]](https://arxiv.org/abs/1311.6817) DOI: 10.1088/1475-7516/2013/12/005

5. Amani, Ali R; Escamilla-Rivera, Celia and Faghani, H.R. *Interacting closed string tachyon with generalized Chaplygin gas and its stability*. Phys. Rev. D 88, 124008 (2013). [arXiv:1302.1644\[gr-qc\]](https://arxiv.org/abs/1302.1644) DOI: 10.1103/PhysRevD.88.124008

6. Escamilla-Rivera Celia; Bañados, Máximo and Ferreira G., Pedro. *A tensor instability in the Eddington inspired Born-Infeld Theory of Gravity*. Phys.Rev.D (Vol.85, No.8), (2012). [arXiv:1204.1691\[gr-qc\]](https://arxiv.org/abs/1204.1691) DOI: 10.1103/PhysRevD.85.087302

7. Escamilla-Rivera, Celia; García Jimenéz, Gerardo; Loaiza-Brito, Oscar and Obregón, Octavio. *Closed String Tachyon: Inflation and Cosmological Collapse*. Intellectual Archive Bulletin, ISSN 1929-1329, (2012). [arXiv:1110.6223\[gr-qc\]](https://arxiv.org/abs/1110.6223)

8. Escamilla-Rivera, Celia; García Jimenéz, Gerardo; Loaiza-Brito, Oscar and Obregón, Octavio. *Closed String Tachyon: Inflation and Cosmological Collapse*. Class.Quant.Grav. 30 (2013) 035005 [arXiv:1110.6223\[gr-qc\]](https://arxiv.org/abs/1110.6223) DOI: 10.1088/0264-9381/30/3/035005

9. Escamilla-Rivera, Celia; Ureña-López, L. Arturo and Obregón, Octavio. *Supersymmetric classical cosmology: A quickly review*. Electron.J.Theor.Phys. PS8 (2011) 69-80 <http://inspirehep.net/record/1216331>

10. Escamilla-Rivera, Celia; Lazkoz, Ruth; Salzano, Vincenzo and Sendra, Irene. *Tension between SNeIa and BAO: current status and forecast*. JCAP 1109 (2011)

003, [arXiv:1103.2386\[astro-ph\]](#) DOI: 10.1088/1475-7516/2011/09/003

11. Escamilla-Rivera, Celia; Ureña-López, L. Arturo and Obregón, Octavio. *Supersymmetric classical cosmology*. JCAP 1012 **011** (2010). [arXiv:1009.4233\[gr-qc\]](#) DOI: 10.1088/1475-7516/2010/12/011

12. Escamilla-Rivera, Celia; García Jimenéz, Gerardo and Obregón, Octavio. *Unveiling the tachyon dynamics in the Carrollian limit*. Rev.Mex.Fis. E56 **177** (2010). [arXiv:1009.0105\[gr-qc\]](#)

PAPERS IN  
PREPARATION

1. Castellanos, E and Escamilla-Rivera, Celia. *Modified uncertainty principle from the free expansion of a Bose Einstein Condensate*

2. Castellanos, E; Escamilla-Rivera, Celia; Santos, E. and Nunez, D. *Perturbations aspects on BEC's scalar fields*.

3. Escamilla-Rivera, Celia and Capozziello, Salvatore; *Eddington theory of gravity: a general Palatini form*.

CONFERENCE  
CONTRIBUTIONS/  
PUBLICATIONS

1. Escamilla-Rivera Celia; Bañados, Máximo and Ferreira G., Pedro. *The rise of a tensor instability in Eddington gravity*. C12-07-01.1 (2013). [arXiv:1301.5264\[gr-qc\]](#) Marcel Grossmann Meeting 2012. [http://www.icra.it/mg/mg13/parallel\\_sessions.htm](http://www.icra.it/mg/mg13/parallel_sessions.htm)

2. Escamilla-Rivera, Celia; García Jimenéz, Gerardo; Loaiza B., Oscar and Obregón Octavio, *The closed string tachyon and its relationship with the evolution of the universe*, C12-07-01.1 (2013). [arXiv:1301.4915\[gr-qc\]](#) Marcel Grossmann Meeting 2012. [http://www.icra.it/mg/mg13/parallel\\_sessions.htm](http://www.icra.it/mg/mg13/parallel_sessions.htm)

3. Escamilla-Rivera, Celia; Ureña-López, L. Arturo and Obregón, Octavio. *Supersymmetric classical cosmology: a quickly review*. Electronic Journal of Theoretical Physics (2012). <http://www.ejtp.com/articles/MathWork.pdf>

4. Escamilla-Rivera, Celia; Lazkoz, Ruth; Salzano, Vincenzo and Sendra, Irene. *Tension between SNeIa and BAO: current status and forecast*, <http://ibericos11.usal.es/html/abstracts.html>

5. Escamilla-Rivera, Celia; Ureña-López, L. Arturo and Obregón, Octavio. *What local supersymmetry can do for cosmology?* AIP Conf.Proc. 1256 262-266 (2010). <http://link.aip.org/link/?APCPCS/1256/262/1>

6. Escamilla-Rivera, Celia and Obregón, Octavio. *¿En cuántas dimensiones vivimos?*, XVIII Congreso Nacional de Física, Mexico (2005).

7. Escamilla-Rivera, Celia; García Jimenéz, Gerardo and Obregón, Octavio. *Límite de Carroll y Taquiones en la Acción de Sen*, XVIII Congreso Nacional de Física, Mexico (2005).

8. Alcalá Ochoa, Noe; Mendiola Anda, Gabriel; Mora Gonzalez, Miguel; Martínez Escobedo, Luis and Escamilla, Celia. *Crack inspection on tanks using shearography*,

Proc. SPIE 5776, **838** (2005). <http://dx.doi.org/10.1117/12.611907>

PUBLICATIONS IN  
SCIENCE MAGAZINES  
AND SCIENTIFIC  
BLOGS ARBITRATED

1. Escamilla-Rivera, Celia. *La nueva receta del Universo*. *C<sup>2</sup> Ciencia y Cultura Magazine*. November 2014. <http://www.revistac2.com/la-nueva-receta-del-universo>
2. Escamilla-Rivera, Celia. *Una nueva receta cósmica*. MasCiencia por Mexico Official Blog. <http://masciencia.org/blog/una-nueva-receta-cosmica> (2014).
3. Escamilla-Rivera, Celia. *Por qué Planck aún no termina de sorprender...* MasCiencia por Mexico Official Blog. <http://goo.gl/6f5m0G> (2014).
4. Escamilla-Rivera, Celia. *Bienvenidas a la Tierra Ondas Gravitacionales Primordiales*. MasCiencia por Mexico Official Blog. <http://goo.gl/bNVTYi> (2014).
5. Escamilla-Rivera, Celia. *Un universo congelado*. (2013). MasCiencia por Mexico Official Blog. <http://masciencia.org/blog/un-universo-congelado>
6. Escamilla-Rivera, Celia. *The Milky Way and Andromeda galaxy are on a collision course!*. AstroBlog University of Oxford. (2012) <http://www2.physics.ox.ac.uk/blog/astro-blog>
7. Escamilla-Rivera, Celia. *Mayan astronomy for 2012: Looking ahead*. AstroBlog University of Oxford. (2012) <http://www2.physics.ox.ac.uk/blog/astro-blog>
8. Escamilla-Rivera, Celia. *La ciencia de los viajes en el tiempo*. El Expreso (Periódico de Campeche), Núm. 1564, Pag. 2. (2010). <http://www.fundacionpablogarcia.gob.mx/>
9. Escamilla-Rivera, Celia. *A través de la oscuridad del Universo*. Ciencia y Desarrollo Vol. 35, No. 238, Pag. 14-19. Revista del CONACYT. (2009). [http://www.conacyt.mx/comunicacion/revista/238/Articulos/Oscuridad\\_Universo/Oscuridad\\_Universo1.html](http://www.conacyt.mx/comunicacion/revista/238/Articulos/Oscuridad_Universo/Oscuridad_Universo1.html)

BOOKS AND LECTURES  
NOTES

1. Celia Escamilla-Rivera. *El Proyecto Jonbar*. Book Novel 2014. ASIN: B00NBF BXQG. Available in <http://www.amazon.com/dp/B00NBF BXQG>
2. Celia Escamilla-Rivera. *Introduction to Cosmology*. Taller de Introducción a la Cosmología. 2014. Available in [http://media.wix.com/ugd/ada9d3\\_2897f7f61005475cb97491500599b5e3.pdf](http://media.wix.com/ugd/ada9d3_2897f7f61005475cb97491500599b5e3.pdf)
3. Miguel Sabido Moreno, Celia Escamilla-Rivera and J. Trejo Alonso. *Análisis Vectorial*. University of Guanajuato. 2010. Preview in <http://dfisica.ugto.mx/~msabido/analisis/vectorial2.pdf>

CONFERENCES AND  
SEMINARS

- 2014** San Salvador, El Salvador. Universidad Nacional de El Salvador. Given the seminar: *Dark Energy in a quandary*.
- 2014** Tuxtla Gutiérrez, Chiapas, Mexico. Given the seminar: *Dark Energy in a quandary*.

- 2014** Tuxtla Gutiérrez, Chiapas, Mexico. Taller de Introducción a la Cosmología. Given the lecture: *Introduction to Cosmology*. Total: 4 days/6 hours. [http://mctp.mx/e\\_cosmologia\\_moderna.html#organizers/](http://mctp.mx/e_cosmologia_moderna.html#organizers/)
- 2014** Nottingham, United Kingdom. Journal Club at the School of Astronomy and Physics. University of Nottingham. Given the talk: *Cosmodynamical issues in an accelerated universe*. [http://www.nottingham.ac.uk/~ppzphy7/webpages/seminars/journal\\_club/](http://www.nottingham.ac.uk/~ppzphy7/webpages/seminars/journal_club/)
- 2012** Stockholm, Sweden. Marcel Grossmann Meeting 2012. University of Stockholm. Given two talks: *The closed string tachyon and its relationship with the evolution of the universe* and *The rise of a tensor instability in Eddington gravity* <http://www.icra.it/mg/mg13/>
- 2012** Lisbon, Portugal. VIIth Iberian Cosmology Meeting IBERICOS 2012. University of Lisbon. Given the talk: *A tensor instability in the Eddington inspired Born-Infeld Theory of Gravity*. <http://ibericos2012.oal.ul.pt/index.php?n=Main.Participants>
- 2011** Salamanca, Spain. VIth Iberian Cosmology Meeting IBERICOS 2011. University of Salamanca. Given the talk: *Tension between SNeIa and BAO: current status and future forecasts* <http://ibericos11.usal.es/>
- 2011** Bilbao, Spain. The Gut Group. Basque Country University. Given the talk: *What local supersymmetry can do for cosmology?*
- 2010** Granada, Spain. 2nd. JPAS Meeting. University of Granada. <https://w3.iaa.es/~amb/J-PAS/Participants.html>
- 2010** León, Mexico. Workshop in Supersymmetry. University of Guanajuato. <http://www.ifug.ugto.mx/~supercuerdas/mexicuerdas/participantes.html>
- 2009** Playa del Carmen, Mexico. VIII School of the Gravitation and Mathematical Physics Division of the Mexican Physical Society. Mexican Physical Society and University of California, Berkeley. Presentation of the poster: *What local supersymmetry can do for cosmology?* <http://usparc.ihep.su/spires/find/hep/www?rawcmd=a+Arturo+Urena+Lopez,+L>
- 2009** D.F., Mexico. Reunion XVII of the Division in Gravitation and Mathematical Physics. Universidad Autónoma Metropolitana Iztapalapa (UAM-I).
- 2008** Michoacán, Mexico. 3er. International Meeting on Gravitation and Cosmology. Universidad Michoacana de San Nicolás de Hidalgo. Given the talk: *Classical and Quantum Tachyon Cosmology in String Theory*.
- 2008** León, Mexico. Seminar. University of Guanajuato. Given the talk: *La función de onda supersimétrica del Universo para un modelo cosmológico Friedmann-Robertson-Walker plano*.
- 2008** León, Mexico. I Congress of Cosmology. Advance Institute of Cosmology. University of Guanajuato and University of California, Berkeley.
- 2007** Buenos Aires, Argentina. Physics Department of the School of Exact and Natural Sciences. Ninth J.J. Giambiagi Winter School Part B. Presented the poster: *Tachyons in open and closed string theory*.
- 2007** D.F., Mexico. Advance Summer School 2007. CINVESTAV del IPN.
- 2006** Cambridge, United Kingdom. Tachyons in open and closed string theory. University of Cambridge.

- 2006** León, Mexico. Workshop: From Neutrinos to Dark Matter. University of Guanajuato.
- 2005** León, Mexico. III Marathon in Research. University of Guanajuato. Given the talk: *El límite de Carroll y taquiones en la acción de Sen*.
- 2005** Puebla, Mexico. VI Workshop of the Division in Gravitation and Mathematical Physics. Mexican Physics Society.
- 2005** Guadalajara, Mexico. XLVIII Physics National Congress. Mexican Physics Society. Given the talk: *El límite de Carroll y taquiones en la acción de Sen* and presented the poster: *¿En cuántas dimensiones vivimos?*.
- 2005** León, Mexico. Workshop in Neutrinos. University of Guanajuato.
- 2005** Guanajuato, Mexico. XIX Astronomy National Congress. University of Guanajuato.
- 2005** D.F., Mexico. Advance Summer School 2005. CINVESTAV del IPN.
- 2004** Guanajuato, Mexico. III Contest Intrauniversitary in Mathematics applied in Engineering. D.E.S of Engineering. University of Guanajuato. *Winner of the Third Place*.
- 2004** Guanajuato, Mexico. VII Contest Intrauniversitary in Experimental Physics D.E.S of Engineering. University of Guanajuato. *Winner of the Second Place*.
- 2004** Guanajuato, Mexico. VIII Mexican Symposium on Medical Physics. University of Guanajuato.
- 2003** Guanajuato, Mexico. VI Contest Intrauniversitary in Experimental Physics D.E.S of Engineering. University of Guanajuato. *Winner of the Second Place*.

ORGANIZING  
CONFERENCES

- 2014** Chiapas, Mexico. Inicio a la Cosmología Moderna. [http://mctp.mx/e\\_cosmologia\\_moderna.html#organizers/](http://mctp.mx/e_cosmologia_moderna.html#organizers/)
- 2010** Bilbao, Spain. Dark Matter Awareness Week. <http://people.sissa.it/~salucci/DMAW2010/>
- 2009** Cd. del Carmen, Mexico. I Exposcience Peninsular. Universidad Autónoma del Carmen and the International Movement for Leisure Activities in Science and Technology (MILSET). <http://www.expociencias.net/expociencias.asp>

TEACHING  
EXPERIENCES AND  
ACADEMIC POSITIONS

- 2014** Professor Lecture in Quantum Mechanics at Universidad Nacional de El Salvador. PhD Level Course.
- 2015** → **2017** Member of the Sistema Nacional de Investigadores Nivel 1 (SNI 1).
- 2014** → **2015** Professor Junior Associate at MCTP/ICTP.
- 2010** Teaching assistant in Classical Mechanics. University of Guanajuato.
- 2008** → **2010** Substitute in the University of Guanajuato General Council.
- 2008** → **2010** Substitute in the Campus León Council. University of Guanajuato.
- 2008** → **2010** Holder in the Science Division Council. University of Guanajuato.
- 2008** Professor. Physics I, II, III and Chemistry I, II. Cumbres College. León, Mexico.



**2007** → **2008** General Secretary of the Student Society. Science Division. University of Guanajuato.

**2003** Teaching assistant in Thermodynamics and Optics. CETis No. 20. Cd. del Carmen, Mexico.

#### COMPUTER SKILLS

**Operating systems** : Linux, Mac OS and Microsoft Windows.

**Languages** : C++, MCMC

**Programming** : Mathematica, Maple and Gnuplot.

**Applications** :  $\text{\LaTeX}$  and MS Office.

#### PUBLIC OUTREACH

**Public Talk** : TV Program “Universitarios de 10”. Production by TV UNACH. (January 2015). <https://www.youtube.com/watch?v=LnMaoHQJASI>

**Magazine Interview** : Agua de Coco Magazine. Interview about my research and academic life (2014). Campeche, Mexico.

**Public Talk** : TV program Vida de 10. Talk about my research in Cosmology (2014). Cd. del Carmen, Campeche, Mexico.

**Public Talk** : TV program Noticias 7 pm. Talk about my research in Cosmology and prices (2012). Cd. del Carmen, Campeche, Mexico.

**Public Talk** : TV program Bienviviendo. Talk about my research in Cosmology and prices (2012). Cd. del Carmen, Campeche, Mexico.

**Public Talk** : Interview Radio EXA 88.9 FM. Talk about my research in Cosmology and prices (2012).

**Public Talk** : Talk on Radio. Program “Y sin embargo se mueve”. Bilbao, Spain. (2011). <http://tas-tas.org/castellano/content/blogcategory/52/50/>

**Public Talk** : Interview Radio Delfín 88.9 FM (Radio of the Universidad Autónoma del Carmen). Program “Un poco de todo”. Talk about my research in Cosmology. (2009).

**Public Talk** : Interview Radio Delfín 88.9 FM (Radio of the Universidad Autónoma del Carmen). Talk about the organization of the I Exposcience Peninsular by the UNACAR and the MILSET. (2009).

**Public Talk** : Interview Radio Delfín 88.9 FM (Radio of the Universidad Autónoma del Carmen). Cultural space. (2008).

**Symposium** : Invited talk about Gravitation and Cosmology in CETis No. 20. Cd. del Carmen, Mexico. (2005).

**Newspaper** : Tribuna del Carmen. Article title: Física carmelita interactuando con científicos internacionales. Pag. 7. (Monday May 26 2008.)

**Public Talk** : TV Program “Zona 4”. Production by TV4 and the Consejo Nacional de Ciencia y Tecnología del Estado de Guanajuato (CONCYTEG). (April 2007)

**Public Talk** : TV Program “Year of the Physics 2005”. Production by TV4. (May 2005).

LANGUAGE SKILLS

**Spanish:** Native tongue.

**English:** Fluent. TOELF ITP 517 points and IELTS British Council 5.5

REFERENCES

**Dra. Ruth Lazkoz Sáez**

University of Basque Country,  
PO Box 644,  
48080 Bilbao,  
Spain.  
[ruth.lazkoz@ehu.es](mailto:ruth.lazkoz@ehu.es)

**Prof. Pedro Gil Ferreira**

Astrophysics,  
University of Oxford,  
DWB, Keble Road,  
Oxford OX1 3RH,  
United Kingdom.  
[P.Ferreira1@physics.ox.ac.uk](mailto:P.Ferreira1@physics.ox.ac.uk)

**Prof. Octavio Obregón Díaz**

Departamento de Física,  
Universidad de Guanajuato,  
P.O. Box E-143, 37150,  
León, Guanajuato,  
México.  
[octavio@fisica.ugto.mx](mailto:octavio@fisica.ugto.mx)