Personal Information		
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	https://orcid.org/0000-0001-9584-8482	
	https://owsd.net/member/castillo-ruth	
	https://alicante.academia.edu/RuthCastilloOchoa	
	https://philpeople.org/profiles/ruth-castillo-1	
	https://www.researchgate.net/messages/1199738673	

## Curriculum Vitae

# Work Experience

Date	01 January 1998–01 April 1999
Employer	College San Agustín (Caracas, Venezuela)
Occupation or	High School Educator in the Sciences
	Full Teacher of Physics and Mathematics

Date	03 March 1999–30 July 1999
Employer	Rodolfo Loero Arismendi University Institute. (Venezuela)
Occupation or	School of Economics and Finance. University Education
	Full Professor of Physics and Mathematics

Date	01 October 1998–30 September 2000
Employer	San Francisco Sales College High School. (Venezuela)
Occupation	High School Educator in the Sciences
	Full Teacher of Physics and Mathematics

M.Sc. Prof. Ruth Castillo. Curriculum Vitae

Date Employer Occupation or position Activities and responsibilities	<ul> <li>01 September 2001–30 March 2004</li> <li>Central University of Venezuela. (Venezuela)</li> <li>Faculty of Engineering. Department of Applied Physics.</li> <li>Full professor of Physics I and General Physics Laboratory Coordinator. Full</li> <li>Member of Laboratory of Nuclear Engineering Techniques (LATNI). Full</li> <li>Researcher of the project of Radiotrazadores in the Oil and Sugar Industry in</li> <li>Venezuela</li> </ul>
Date Employer Occupation or position	01 April 2004–30 July 2011 Experimental University of the Armed Forces. (Venezuela) Chair of Physics and Mathematics, Faculty of Engineering
Activities and responsibilities	Head of the Department of the Basic Cycle of Engineering (2006-2009). Head of Chair of Physics and Mathematics (2005-2006). Full Professor of Mathematics 1, 2, 3.4 of the Basic Engineering Cycle. Full Professor of Physics 1 and Laboratory of Physics 1 (2004-2007). Head of the Research Department of the Caracas Nucleus (2009-January 2011). Jury of Thesis in the research line ESGESO and EDIT.
Date Employer Occupation or position Activities and responsibilities	19 September 2011—30 July 2012 "Mater Dei" High School. (Caracas-Venezuela) Full Teacher of Earth Sciences and Physics. Member of Department of Tolerance and Convivence
Date Employer Occupation or position	15 October 2012–30 April 2016 Central University of Venezuela. (Caracas-Venezuela) Laboratory of General Physics, Faculty of Engineering. Department of Applied Physics, Department of Mathematics
Activities and responsibilities	Full Professor of Physics I, Physics II and Laboratory of General Physics. Full Professor of Calculus I in the Department of Mathematics. Head General Physics Laboratory. Faculty of Engineering. Department of Applied Physics. Full Professor of theoretical physics and the General Physics Laboratory of the

	department of applied physics of the faculty of engineer. Full Member in the Nuclear Applications and Techniques Laboratory of the Department of Applied Physics of the Faculty of Engineering. General Coordinator of the General Physics Laboratory. Researcher in cosmological models within the framework of general relativity under of project of Physic Theoric and Mechanics Applied
Date Employer Occupation or position	01 June 2016—30 June 2016 Andres Bello Catholic University (Caracas-Venezuela) School of Education Sciences in Physics and Mathematics
Activities and responsibilities	Online tutor of the School of Education Sciences in Physics and Mathematics under the Program of Innovation in Mathematics Teaching (UCAB, Venezuela, under agreement with Telefónica-Spain) (Caracas, Venezuela)
Date Employer Occupation or position	01 April 2016–16 December 2017 Simón Bolívar University (La Guaira- Venezuela) Department of General Training and Basic Sciences, Mechanical and Electromagnetic Laboratory
Activities and responsibilities	Full Professor of Theoretical Physics of the Department of General Training and Basic Sciences. General Coordinator of the Mechanical and Electromagnetic Laboratory of the Simón Bolívar University. Full Researcher in the project "Elaboration of cosmological models within the framework of general relativity". Lecturer and Speaker at the Conference on Research and Technological Development of the Simón Bolívar University. Lecturer and Guest Speaker at the CEIDEC of the faculty of sciences of the Central University of Venezuela (guest professor at the Simón Bolívar University). Workshop for Community Service of the Department of General Training and Basic Sciences of the Simón Bolívar University
Date Employer Occupation or position	15 May 2018 –06 June 2018 Scuola Internazionale di Studi Avanzati (SISSA) (Trieste, Italy) Interdisciplinary Laboratory Visiting Scientist. (Philosophy and History of Physics)
Date Employer	January 2020–Present Simon Bolivar University (Caracas-Venezuela)

#### M.Sc. Prof. Ruth Castillo. Curriculum Vitae

Occupation or<br/>position.Collaborator ad honoremActivities and<br/>responsibilitiesOnline Lecture online ad honorem

Date	01 September 2018–Present
Employer	Universitá Liberetá- Udine (Italy)
Occupation or position. Activities and responsibilities	Independent/ Online Tutor- Teacher by project Teacher Spanish as a Foreign Language Teaching Spanish as a Foreign Language

Date	26 May 2020–Present
Employer	Universitá di Roma Tre (Rome, Italy)
Occupation or position.	Cultore of Departament of Foreign Languages and Culture
Activities and	Academics Activities of Foreign Culture and Languages and Humanities
responsibilities	Sciences

Date Employer	2020 – Present
Employer Occupation or	Asociacion Italiana di Fraseologia (PHRASIS)
position	Miembro del Grupo de Vocales

D	2020 – Present
Date Employer	Rivista Scientifica DIALOGOI (Roma, Italia)
Occupation or	Author/ Collaborator Editor
position	https://www.writeupbooks.com/product-author/ruth-castillo/

# **Education and Training**

Date Organization	January, 2020- Currently <b>Roma Tre University (Rome, Italy)- University of Alicante (Alicante, Spain)</b> Department of Politics Sciences (University of Roma Tre) and Department of Philosophy and Letters (University of Alicante)
Training	<ul> <li>Phd. Intercultural and Historical Transfers of Mediterranean Medieval Europe. Department of Philosophy and Letters (University of Alicante)</li> <li>Research Project:</li> <li>From the medieval to Husserl: Analysis of scientific concepts Matter and Field as a term of metalanguage under framework of transcendental phenomenology</li> </ul>
	<i>Tutors:</i> Prof. Vicent Martínez (Spain- University of Alicante) / Prof. Luisa Messina (Italy- University of RomaTre) Present
	01 April 2016-16 December 2017
	Simón Bolívar University (La Guaira- Caracas-Venezuela)
Date Organization	Department of General Training and Basic Sciences, Mechanical and Electromagnetic Laboratory
Organization	Full time Professor
Training	<i>Full Researcher in the Project:</i> Elaboration of cosmological models within the framework of general relativity <b>Duration</b> : 19/12/2016- 16/12/2017
Date	01 Sep-2014 to 16nov-2018
Organization	Central University of Venezuela (Caracas, Venezuela).
	Institute of Philosophy Juan David García Bacca.
	Thesis qualified with Honors unanimously by the Juries. Thesis with mention publication and qualified EXCELLENT
Academic Title	Masters in Logic and Philosophy of Science
Date	15 October 2012- 30 April 2016
Organization	Central University of Venezuela (Caracas, Venezuela).
Trainina	Faculty of Engineering. Department of Applied Physics
Training	Researcher in Laboratory of General Physics, <i>Full time Professor</i>

	<ul> <li>Full Researcher in the Project: Study of nucleosynthesis r process in the neutrinos wind under quasi-static approximation within the framework of general relativity</li> <li>Supervisor of Project Research:</li> <li>Phd. César Noguera (condel7@gmail.com)</li> <li>and Phd. María Esculpi (mariaesculpiw@gmail.com)</li> <li>Duration: 15/02/2016-09/02/2017</li> </ul>
Date Organization	<ul> <li>15 March 2014- 30 July 2017 (interrupted In Thesis)</li> <li>Central University of Venezuela (Caracas, Venezuela).</li> <li>Faculty of Engineering. Department of Applied Physics and Theoretic Physics.</li> <li>Research interrupted by emigration</li> </ul>
Academic Title	Master's Degree in Theoretical and Applied Mechanics
Date	01 April 2004- 30 July 2011
Organization	<b>Experimental University of the Armed Forces. (Venezuela).</b> Faculty of Engineering
Training	Full time Professor- Head of the Research Department of the Caracas Nucleus- Head of the Department of Research
Date	01 September 2001-30 March 2004
Organization	<b>Central University of Venezuela (Caracas, Venezuela).</b> Faculty of Engineering. Department of Applied Physics
Training	Full time professor of Physics I, General Physics Laboratory Coordinator Full Member of Laboratory of Nuclear Engineering Techniques (LATNI)
	<i>Full Researcher of the project: Radiotrazadores Applications in the Oil and</i> <i>Sugar Industry in Venezuela</i>
	Supervisor of the Project: Phd. Hector Constant/ Phd. Eddie Avilán Duration:01/03/2003-30/03/2004
Date	16 October 1993- 22 October 1999
Organization	<b>Catholic Andres Bello University (Caracas, Venezuela)</b> Education Sciences in Physical and Mathematical
Academic Title	Licenciado- Bachelor in Educational Sciences in Physics and Mathematics

## **Personal Skills and Competences**

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas

Language (s)	Spanish, Italian, English			
Self-assessment	Understanding		Speaking	Writing
	Listening	Reading	Spoken interaction	
Spanish	native	native	native	native
Italian	C2	C2	C2	C2
English	A2	B1	A2	B1

#### **Investigation Area**

- Philosophy of physics
- Phenomenology
- Theoretical physics under framework of General Relativity Theory

#### Societies of Research to which you belong as a member

- **2017—Present**. Research Member of the Venezuelan Association for the Advancement of Science (ASOVAC). Venezuela
- **2018—Present**. Research Member of the Italian Society of History of Physics and Astronomy (SISFA). <u>http://www.sisfa.org/la-societa/</u>. Italy
- **2018—Present**. Full Member of the Organization for Women in Science Development (OWSD). Trieste, Italy <u>https://owsd.net/member/castillo-ruth</u>
- **2018—Present**. Research Member of the Italian Society of Logic and Philosophy of Science (SILFS). Italy <u>https://www.silfs.it</u>
- 2018—Present. Member of SCIENCE4REFUGEES of EURAXESS. European Commission
- **2020—Present**. Member of Latinoamerican Circle of Phenomenology of Husserl. (CLAFEN) <u>https://clafen.org/</u>
- **2020- Present.** Member of Spain Society of Phenomenology. (SEFE). https://www.sefe.es/

## **Head of Academic Positions**

- Head of the Department of the Basic Cycle of Engineering. Experimental University of the Armed Forces. (Caracas, Venezuela) (2006-2009)
- Head of Chair of Physics and Mathematics. Experimental University of the Armed Forces. (Caracas, Venezuela) (2005-2006)
- Head of the Research Department of the Caracas Nucleus. Experimental University of the Armed Forces. (Caracas, Venezuela) (2009-January 2011)
- Head General Physics Laboratory. Central University of Venezuela. (Caracas, Venezuela) (2012-2016)
- Head General Physics Laboratory. Simon Bolivar University (2017)

## Academic Jury

• Jury of Thesis in the research line ESGESO and EDIT. Experimental University of the Armed Forces, Caracas, Venezuela, 2011

#### Courses

- "Elaboration of a Web page". Andres Bello Catholic University (Caracas, Venezuela)
- "Teaching Physics". Experimental Pedagogical University Libertador (Caracas, Venezuela)
- "Discipline in the Classroom". Andres Bello Catholic University. (Caracas, Venezuela)
- "Mathematics Experience in Middle Education". Andres Bello Catholic University. (San Ignacio del Masparro, Barinas, Venezuela)
- "Course of Programming in Virtual Reality". Andres Bello Catholic University. (Caracas, Venezuela)

M.Sc. Prof. Ruth Castillo. Curriculum Vitae

- "Higher Education: Dialogue for the Present and the Future". Andres Bello Catholic University. (Caracas, Venezuela)
- "Seminar-Workshop on Interdisciplinary Research: Gramsci's Thought in the Reconstruction of Latin America". Bolivarian University of Venezuela. 24 academic hours. (Caracas, Venezuela)
- "Developing Competes in and out of the classroom" Metropolitan University. (Caracas, Venezuela)
- "Planning in competitions" Metropolitan University. (Caracas, Venezuela)

#### Acknowledgments Received – Awards Received

- Recognition for participation in the process of induction and counseling of students in physical education and mathematics education. Andres Bello Catholic University. 2011-2012. Caracas-Venezuela
- Recognition for Labor Efficiency. Experimental University of the Armed Forces 2005-2006. Caracas-Venezuela
- Recognition for Labor Efficiency. Experimental University of the Armed Forces 2009-2010. Caracas-Venezuela
- Recognition for Work performed. Mater Dei High School 2011-2012. Caracas-Venezuela
- Best Poster Award. VII Conference on Phraseology and Paremiology Phrasis. January 14-15, 2021, Padova (Italy) <u>https://elearning.unipd.it/scienzeumane/course/view.php?id=9792</u> <u>https://www.youtube.com/watch?v=ndWdnC8314A&t=54s</u>
- Recognition for Efficiency and Organization to "Evento Cultural en conmemoración del Bicentenario de la Batalla de Carabobo". Bolivarian Republic of Venezuela Embassy, Rome. June 21, 2021.

#### **Conferences And Seminars**

- "The consideration of symmetry within the concept of absolute space through the notions of equilibrium and equivalence". *Student Congress of Scientific Research and Development CEIDEC*. Central University of Venezuela. Science Faculty. Caracas. September 2016.
- "The notion of faraday field through the notions of equilibrium and equivalence: The consideration of symmetry within the concept of Newton's absolute space". *Colloquium of Physics*. Simon Bolivar University. Department of Physics. Caracas. November. 2016.

- "Study of the process r nucleosynthesis in the neutrino wind in the framework of general relativity". *III National Meeting of Technologies and Applications of Engineering*. Simon Bolivar University. Department of General Training and Basic Sciences. Caracas. December 2016.
- "Study of gravitational waves GW150914 for the estimation of graviton". *I Institutional day of Disclosure in Research, Development and Innovation*. Simon Bolivar University. Caracas. January 2017.
- "Static solutions of a quarks star under the frame of general relativity". *I Institutional day* of Disclosure in Research, Development and Innovation. Simon Bolivar University. Caracas. January 2017.
- "Phenomenology and Physics: approximation of the ideas of Husserl to the theory of general relativity of Einstein". *I International Congress Husserl in Milan*. Carlo Cattaneo e Giulio Pretti Research International Insubrico Center. University of Insubria. Varese. October 2017.
- Cycle of Seminars of History and Philosophy of Physics. Scuola Superiore di Studi Avanzati SISSA. Trieste. May 2018.
- "The Notion of Symmetry in Physics: A Term in Metalanguage". 38° Congress of Italian Society of History of Physics and Astronomy. University of Messina. Messina. October 2018.
- "From Harmony to Invariance: The significance of Symmetry in Contemporary Physics". *Congress of Philosophy 2018.* Faculty of Philosophy. Central of Venezuela University. Caracas. November 2018.
- "Symmetry in Physics: The Use of Metalanguage in Science". *Congress of Science, Investigation and Developing.* Faculty of Sciences. Central of Venezuela University. Caracas. October 2018.
- "Inattività contro l'esodo scientifico venezuelano del XXI secolo: uno sguardo ai programmi internazionali per sostenere la scienza a rischio". *I Congresso Venezuela: dalla ricerca della pace all'analisi del discorso político*. Università Roma Tre, Rome. May 2019.
- "Agustín de la Torre and the beginning of Physics in Venezuela: a historical approach to the beginnings of technical and scientific thought in Venezuela". XXXIX Congresso Nazionale della Società Italiana degli Storici della Fisica e dell'Astronomia. University of Pisa. Pisa. September 2019.
- "De la Fisica de Einsteina la Neurofilosofia: La Fundamentación Kantiana-Husserliana en Relatividad General a través de las Nociones de Espacio, Tiempo y Campo como

Condiciones Cognoscitivas". LXIX Anual Convention of Venezuela Association for Advance in Science AsoVac. Caracas. November 2019.

- "Significación y uso de materia y campo en física bajo el marco de la fenomenología transcendental". V National Colloquium of Phenomenology. Association Chilean of Phenomenology. 18 November 2020. [Online]. URL: <u>https://fenomenologiachile.wordpress.com/v-coloquio-nacional-de-fenomenologia-paraestudiantes/?blogsub=confirming#subscribe-blog</u>
- "Fenomenología y Física en Husserl, Weyl y Neelamkavil: Materia-Campo basado en Extensión-Cambio". X Jornadas de Investigación de la Facultad de Filosofía y Letras de la Universidad de Alicante (España). 11 de diciembre 2020. [Online]. URL: <u>https://rua.ua.es/dspace/handle/10045/110965</u>
- "¿Necesita la Ciencia a la Filosofía?" Ciclo de Cursos MOOC. Funindes- Universidad Simón Bolívar (Venezuela). 7 de diciembre 2020 al 13 de diciembre 2020. [Online]. URL: <u>https://www.youtube.com/channel/UCkx14zaM-dAQAyRyrNaZLcg</u> URL: <u>https://funindesenlinea.com/course/view.php?id=108</u>
- "¿Necesita la Ciencia a la Filosofía?" Ciclo de Cursos MOOC. Funindes- Universidad Simón Bolívar (Venezuela). 22 de ferbrero 2021 al 28 de febrero 2021. [Online]. URL: <u>https://www.youtube.com/watch?v=0jXKgAzAVRw</u> URL: <u>https://funindesenlinea.com/course/view.php?id=108</u>
- "El cuerpo humano como fuente fraseológica en el español del Venezuela" Congreso PHRASIS. January, 14-15 2021. Padova (Italy).[Online]. URL: <u>https://elearning.unipd.it/scienzeumane/course/view.php?id=9792</u> <u>https://www.youtube.com/watch?v=ndWdnC8314A&t=54s</u>
- "Einstein and Phenomenology: Husserl and Neelamkavil Perspectives to the Matter-Field Notions Based on Extension-Change". (Italy). 26-28 May 2021. Philosophers and Einstein's Relativity. Universitá Federico II di Napoli. Dipartamento di Studi Umanistici.

## **Coordination of Congress**

- Member of Scientific Committee of 1<sup>st</sup>. International Congress "Venezuela: Desde la Búsqueda de la Paz hasta el Discurso Politico". May 6-8. (2019). Political Sciences Department. RomaTre University (Rome-Italy)
- Co-Chair in the XXXIX Congress of Italian Society of History of Physics and Astronomy (Pisa-Italy). September 9-12 (2019). University of Pisa

- Member of Organization Committee of 1<sup>st</sup>. Cyber Session about Venezuela Migration. November 21-22. (2019). Venezuelan Association of Advance of Science (Caracas-Venezuela). Andres Bello Catholic University
- Member of Organization Committee of 2<sup>nd</sup>. International Congress "Venezuela: Tensiones, Conflicto y Paz". May 18-20. (2020). Political Sciences Department. RomaTre University (Rome-Italy)
- Member of Organization of VIII Jornadas Sicilianas de Estudios Hispanoamericanos y del Mediterráneo. Sesión Venezuela. Asociación Italo venezolana Casa Caribana- Universitá degli Studi di Roma Tre. Mayo 2021. (Rome, Italy)
- Organization of "Bicentenario Batalla de Carabobo. Evento Cultural". Bolivarian Republic of Venezuela Embassy, Rome. June 21, 2021

## **Published Articles**

- "The consideration of symmetry within the concept of absolute space through the notions of equilibrium and equivalence". *EPISTEME NS*. Vol.36. N° 1. 2016: 61-70.
- "From Harmony to Automorphism: The Use of Symmetry as a Term of Metalanguage in Physics". *EPISTEME NS.* Vol. 38, N° 1-2. 2018:101-111. [Online] URL: <u>http://saber.ucv.ve/ojs/index.php/rev\_ens/article/view/16971</u>
- "El uso de Simetría en Física: entre principio y argumento". Memories of 38° Congress of the Italian Society of History of Physics and Astronomya cura di Salvatore Esposito, Lucio Fregonese e Roberto Mantovani. Pavia University Press, Pavia. 2018: 43-51. ISBN: 978-88-6952-058-7
- "La Academia Venezolana en el Exilio: Una tragedia ignorada". *Mastrantus*. 2019. [Online] URL: <u>https://revistamastrantus.wordpress.com/</u>
- "Venezuela y el Éxodo Científico y Profesional: Un análisis a los Programas Internacionales de Apoyo a Científicos, Académicos y Profesionales Venezolanos en el Exilio, Refugiados y en Riesgo". *Democrazia e Sicurezza- Democracy and Security Review*. VIII, nº 4, 2019: 35-51
- "De La Fisica De Einsteina La Neurofilosofia: La Fundamentación Kantiana-Husserliana En Relatividad General A Través De Las Nociones De Espacio, Tiempo y Campo Como Condiciones Cognoscitivas". *Bitácora-e*. University of Los Andes Press. 2019. [Online]. URL: <u>http://www.saber.ula.ve/bitacora-e/eventos/resumenes\_simposio\_lxix.html#1</u>

- "Agustín de la Torre and the beginning of Physics in Venezuela: a historical approach to the beginnings of technical and scientific thought in Venezuela". *Proceedings of the 39th Annual Conference of the Italian Society of History of Physics and Astronomy a cura di Adele La Rana e Paolo Rossi*. University of Pisa Press. Pisa. DOI: 10.12871/978883339402260. 2019: 417-422. [Online]. URL: http://digital.casalini.it/9788833394022
- Castillo, Ruth. «Analisi del discorso politico. Dalla dittatura alla pace». Review of Analisi del discorso politico. Dalla dittatura alla pace of Luisa Messina Fajardo. *Dialogi Recensioni*. N° 6, 2019: 170-171
- Castillo, Ruth. "Estudio del léxico y de la fraseología del español de Venezuela para la elaboración de un diccionario fraseológico del español de Venezuela". En: *eHumanista/IVITRA*. 19 (2021): 498-507. ISSN 1540 5877. [Online]. https://www.ehumanista.ucsb.edu/ivitra/volume/19

### **Books Published**

Castillo, R. (2018). *La noción de Simetría: una reconstrucción. Aproximación a la Filosofía de la Física.* Editorial Académica Española. Beau Bassin: Mauritius.

### Arbitration of Scientific Articles- Collaborator Edition of Scientific Journal

- Referee of Indexed Scientific Journal "Prometeica". Philosophy Journal. URL: <u>https://periodicos.unifesp.br/index.php/prometeica/index</u>
- Referee of Indexed Scientific Journal "Democrazia e Sicurezza". URL: http://www.democraziaesicurezza.it/Rivista
- Author/ Editor of Scientific Journal DIALOGOI 6 (Roma, Italy). https://www.writeupbooks.com/product-author/ruth-castillo/

#### Interview

• Jim Delay, *Scientific American*, February, 15. (2019). https://www.scientificamerican.com/article/venezuela-is-unraveling-mdash-so-is-its-science/

• Oscar Blanco. Universidad de Concepción- Chile. March, 2019 https://www.youtube.com/watch?v=6vH61Y-FKfk&t=356s • Tomás Páez, *La Voz de la Diáspora*, Spain and Venezuela. October 14. (2019). <u>https://www.youtube.com/watch?v=p0nwqYgchK8&t=189s</u>

#### **Academic Recommendations**

- Phd. Luisa Messina Fajardo. Associated Professor of Political Sciences of RomaTre University (Rome, Italy). Email: luisa.messinafajardo@uniroma3.it
- Phd. Diego Battistessa. Associated Professor of Carlos III of Madrid University. (Madrid, Spain). Email: dbattist@inst.uc3m.es
- Phd. María Antonieta Esculpi. Dean of Faculty of Engineering. Central University of Venezuela. Researcher in Theoretical Physics, Astrophysics and Cosmology. Titular Professor of the Central University of Venezuela. Email: <u>mariaesculpiw@gmail.com</u>
- Phd. César Noguera. Associate Professor of Physics at the Central University of Venezuela. Faculty of Engineering. Department of Applied Physics. Researcher in Plasma Physics. Email: <u>condel7@gmail.com</u>
- Phd. Delfín Moronta. Titular Professor of Physics and Philosophy at the Central University of Venezuela. Faculty of Sciences. Researcher in Applied Physics and Philosophy of Sciences. Email: <u>moronta22@yahoo.com</u>
- Msc. María Carolina Álvarez. Assistant Professor of the Central University of Venezuela. Faculty of Humanities and Education. Institute of Philosophy Juan David Garcia Bacca. Researcher in Aesthetics, Epistemology and Philosophy of science. Email: <u>mcalvarezp@gmail.com</u>

#### Firma Digitale: Ruth Carolina Castillo Ochoa

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