

# Eduardo Dorrego López

PhD in Mathematics (History of Mathematics)  
Mathematical Institute of the University of Seville (IMUS)

Teacher of Secondary School

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## ABOUT ME

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I studied Mathematics at USC, where, after passing the public exam to be Teacher of Mathematics in Secondary School, I obtained my Master's degree in the Department of Algebra. Looking to specialize in History of Mathematics, I got enrolled into the «Doctorate in Mathematics» program at IMUS (Seville), getting in 2021 my doctorate in the line of research in Mathematical Analysis under the supervision of José Ferreirós Domínguez and the tutelage of Guillermo Curbera Costello. My interests lie in the History of Mathematics, and more specifically in issues of irrationality and transcendence in the 18th and 19th centuries with special attention to the work of J. H. Lambert. In addition, I have been teaching in Secondary School for more than ten years.

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## ACADEMIC TRAINING

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*Degree:* **PhD** in Mathematics (History of Mathematics). Doctorate with **international mention** and awarded with the *cum laude*.

*Institution:* IMUS (Mathematical Institute of University of Sevilla). Official line of research: Mathematical Analysis.

*Year:* 2015/2021

*Title:* **Irrationality and Transcendence in the 18th and 19th centuries. A contextualized study of J. H. Lambert's *Mémoire* (1761/1768).**

*Supervisor:* José Manuel Ferreirós Domínguez.

*Tutor:* Guillermo Curbera Costello.

*Degree:* **Master's degree** in Mathematics (**8.35/10**).

*Institution:* USC (University of Santiago de Compostela), Department of Algebra.

*Year:* 2009/2010.

*Title:* **Geometría de variedades algebraicas especiales. Sobre la Superficie de Ferrara y su deformación (9/10).**

*Advisor:* Manuel Ramón Pedreira Pérez.

*Degree:* **Bachelor's degree** on Mathematics (Specialisation on Pure Mathematics) (**8/10**).

*Institution:* USC (University of Santiago de Compostela).

*Year:* 2000/2005.

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#### OTHER TRAINING

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*Postgraduate course:* «**Historia y Filosofía de las Matemáticas**», UNED, 2016.

*Postgraduate course:* «**Escribir Matemáticas**» (LaTeX), UNED, 2014.

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#### PAPERS

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DORREGO LÓPEZ, E. (2018). ¿Se pueden introducir los cardinales transfinitos en Secundaria? La importancia de la Historia. *La Gaceta de la RSME*, Vol. 21, Nº 1, pp. 169-182.

DORREGO LÓPEZ, E. (2014). Sobre la irracionalidad de  $\pi$ . Ideas generales de la demostración de Lambert. *Notae Philosophicae Scientiae Formalis*, Vol. 3, pp. 81-93.

DORREGO LÓPEZ, E. (2010). Variedades algebraicas con propiedades especiales. *Actas del Seminario de Iniciación a la Investigación, IMAT*, pp. 87–90.

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**CHAPTERS IN BOOKS**

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DORREGO LÓPEZ, E. (2022). **The impact of analysis on the understanding of irrational quantities. The case of Legendre and his proof that  $\pi$  is irrational.** In: CRIPPA, D., MASSA ESTEVE, M. R. (2022). *The consolidation of algebraization in the 17th and 18th centuries: a dialogue between dwarfs and giants, centres and peripheries.* London: College Publications (forthcoming in 2022).

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**BOOKS**

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DORREGO LÓPEZ, E., FUENTES GUILLÉN, E. (2021). *Dilucidando  $\pi$ . Irracionalidad, trascendencia y cuadratura del círculo en Johann Heinrich Lambert (1728–1777)* (with a preface by José Ferreirós). London: College Publications.

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**CONFERENCES**

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E. DORREGO LÓPEZ, **The 18th century as the germ of an in-depth understanding of irrational numbers**, as part of the Symposium: **Real Numbers in Transition: aspects of the 18th and 19th centuries**, *People, Places, Practices: Joint BSHM-CSHM/SCHPM*, 6th-8th July 2020, University of St Andrews, Scotland (it was postponed to July 2021 due to the COVID, and held online).

E. DORREGO LÓPEZ, **A glimpse of the different phases in the development of the mathematical concept of transcendence**, *«Research in Progress» Meeting*, 29 February 2020, The Queen's College, Oxford.

E. DORREGO LÓPEZ, **Cuestiones de irracionalidad y trascendencia en los siglos XVIII y XIX**, *Jornada sobre filosofía e historia de las matemáticas, Seminario García-Rodeja*, 10 de Diciembre de 2019, USC.

E. DORREGO LÓPEZ, **Algebraicidad y trascendencia en los siglos XVIII y XIX. Origen, evolución y establecimiento**, *Bienal RSME Santander 2019 (Sesión especial en Historia de las Matemáticas)*, Febrero de 2019, Universidad de Cantabria.

E. DORREGO LÓPEZ, **From that which transcends algebra to the non-algebraic. The case of  $e$  and  $\pi$  as motor for the establishment of the modern notion of transcendence**, *29th Novembertagung on the History of Mathematics*, November 2018, IMUS.

E. DORREGO LÓPEZ, **About the nature of  $\pi$ : Proofs and conjectures in Lambert's Mémoire (1768)**, *A History of Mathematics Summer Miscellany*, Friday 27 July 2018, Mathematical Institute of the University of Oxford.

E. DORREGO LÓPEZ, **Dilucidando  $\pi$ . Pruebas y conjeturas en la Mémoire de J. H. Lambert**, *Seminario de Iniciación a la Investigación*, Miércoles 21 de Marzo de 2018, USC.

E. DORREGO LÓPEZ, **Sobre las ataduras del “sentido común” en los intentos de comprender lo infinito: del rechazo griego al Paraíso de Cantor**, *Jornada Principal del Año Cantor*, Miércoles 14 de Febrero de 2018, IMUS.

E. DORREGO LÓPEZ, **Lambert y su Mémoire de 1768. Principales ideas de la primera prueba de irracionalidad de  $\pi$** , *2º Encontro Ibérico de História da Matemática*, 15 de Julio de 2016, Universidad de Coimbra.

E. DORREGO LÓPEZ, **J. H. Lambert: polímata y artífice de la primera prueba de irracionalidad de  $\pi$** , *6º Workshop de Sevilla sobre Filosofía de las Matemáticas*, 10 de Marzo de 2016, Universidad de Sevilla.

E. DORREGO LÓPEZ, **Variedades algebraicas con propiedades especiales**, *Organizada por el IMAT, Seminario de Iniciación a la Investigación*, Miércoles 10 de Octubre de 2010, USC.

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**ORGANIZATION**


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*Title:* **Real Numbers in Transition: aspects of the 18th and 19th centuries.** Symposium presented in: *People, Places, Practices: Joint BSHM-CSHM/SCHPM.*

*Organising committee:* **Eduardo Dorrego López**, Elías Fuentes Guillén.

*Organiser:* British Society for the History of Mathematics and Canadian Society for History and Philosophy of Mathematics/La Société Canadienne d'Histoire et de Philosophie des Mathématiques, in collaboration with HOM-SIGMAA, the History of Mathematics Special Interest Group of the MAA.

*Place and date:* 6th-8th July 2020, University of St Andrews, Scotland.

*Title:* **3<sup>er</sup> Iberian Meeting on History of Mathematics.**

*Organising committee:* José Ferreirós Domínguez, **Eduardo Dorrego López**, Manuel J. García-Pérez.

*Organiser:* Mathematical Institute of the University of Seville (IMUS).

*Place and date:* IMUS and Faculty of Mathematics, Sevilla, 26, 27 and 28 Septiembre 2019.

*Title:* **29th Novembertagung: “History of Mathematical Concepts and Conceptual History of Mathematics”.**

*Organising committee:* María de Paz, **Eduardo Dorrego López**, Elías Fuentes Guillén, Manuel J. García-Pérez, Brigitte Stenhouse, Elisa Turiello.

*Organiser:* Mathematical Institute of the University of Seville (IMUS).

*Place and date:* IMUS, Sevilla, 28, 29 y 30 de Noviembre de 2018.

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**PROJECTS AND RESEARCH GROUPS**


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*Project:* **The genesis of geometric knowledge** ([web](#)).

*Research Group:* **Grupo HUM-717. Historia y Filosofía de las Ciencias Físicas y Matemáticas** ([web](#)).

*Research Group:* **Grupo IMUS de Historia de las Matemáticas.**

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**MEMBERSHIP**

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*Institution:* **British Society for the History of Mathematics** (BSHM).

*Institution:* **Canadian Society for the History and Philosophy of Mathematics** (CSHPM).

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**RESEARCH STAYS**

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*Institution:* Mathematical Institute of the **University of Oxford**.

*Research Group:* Research Group on History of Mathematics.

*Director:* Christopher Hollings.

*Period:* July-September 2018.

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**LANGUAGE SKILLS**

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Spanish (native speaker); Galician (native speaker); English (fluent); French (reading).

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**OTHER MERITS**

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*Figure:* **Honorary Assistant** ascribed to the Department of Logic, Philosophy and Philosophy of Science.

*Institution:* University of Sevilla.

*Period:* 2018/2019.