



**Prof. Dr. Tomás Recio**  
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### **Résumé: Tomás Recio**

Full CV at <http://personales.unican.es/reciot/tomas/curriculum.pdf>

- Born in Oviedo, Spain, December 14, 1949.
- B. Sc., M.Sc. (1972) , Ph. D. (1976). Universidad Complutense de Madrid .
- Professor of Algebra at the Universidad de Cantabria (Santander, Spain), since 1982.

Previous positions (with tenure) at the C.S.I.C. (Consejo Superior de Investigaciones Científicas, Higher Council for Scientific Research, Madrid), Universidad Complutense de Madrid, Universidad de Málaga, Universidad de Granada.

Large number of research visits, of diverse length, at many different North-American or European universities and research centers, often with participation at the different Seminars and Colloquia.

- Teaching experience in a variety of Algebra, Geometry and Mathematics Education undergraduate and graduate courses. Currently involved in the Secondary Education Math Teacher Initial Training Master degree of the University of Cantabria.

- Ph. D. advisor of over a dozen students. Former students hold now university positions (mostly chairs) in Algebra, Computer Science, Geometry or Mathematics Education. See <https://genealogy.math.ndsu.nodak.edu/id.php?id=37084>

- Remarkable experience as referee for
  - Ph. D. thesis,
  - University positions,
  - Research centers and universities (evaluation of quality)
  - Research projects
  - Research papers

involving many different countries.

- Author of around hundred fifty published scientific papers and three hundred fifty scientific communications in different international journals and conferences. Topics: Real Algebraic Geometry, CAD, Robotics, Computer Algebra and Geometry, Automatic Reasoning in Dynamic Geometry, Mathematics Education.

See <http://personales.unican.es/reciot/tomas/publications.html>

- Leader of a large research group on Computational Algebraic Geometry, involving researchers from several universities, with external support since 1985, through different Spanish and European projects.
- Large experience as responsible (General Chair, Program Chair, Local Organization, etc.) of many different international Conferences, all over the world.
- Regarding Mathematics Education he has been involved in different international projects such as (in the past 10 years)
  - the Intergeo econtent+ project, <http://i2geo.net/?language=en> ,
  - the Fibonacci project (<http://www.fibonacci-project.eu> ),
  - the Klein Project of the ICMI  
( [http://dmuw.zum.de/index.php?title=The Klein Project](http://dmuw.zum.de/index.php?title=The_Klein_Project) ) or
  - currently, the StemforYouth H2020 project <https://stemforyouth.unican.es> or the KIKS Erasmus+ project <http://www.kiks.unican.es/en/>
- Large experience in the management of academic and educational issues, as
  - former Secretary General, Vice-Provost for Research or Director of the Institute for Educational Sciences (ICE) of the University of Cantabria
  - former President of the Education Commission of the Real Sociedad Matematica Española, Secretary and President of the national ICMI sub-commission, ie. acting as the Spanish representative to the ICM I(International Commission on Mathematics Instruction)
  - former President of the Consejo Escolar (Regional School Board) de Cantabria. He has been for about a decade, the President of the Consejo Escolar de Cantabria (Regional School Board) and a member of the Consejo Escolar del Estado Español (Spain School Board). Both institutions have the specific mission to link the education system to the community (of parents, administration and education authorities, teachers, etc).

He has developed, over the years, diverse connections to regional, national and international organizations and authorities concerning mathematics education and teacher training.

- Further information available at <http://www.recio.tk/> or at <http://www.arbolmat.com/tomas-recio/> , <http://www.rsme.es/arbolmat/Recio/Recio-Dossier.html>

Santander, February 21, 2018

## Refereed journal publications for the period 2015-2017

Botana, F.; Hohenwarter, M.; Janicic, J.; Kovacs, Z.; Recio, T.; Petrovic, I.; Weitzhofer, S.: “Automated Theorem Proving in GeoGebra: Current Achievements”. *Journal of Automated Reasoning*, June 2015, Volume 55, Issue 1, pp 39-59. DOI: <http://dx.doi.org/10.1007/s10817-015-9326-4>

Recio, T.; Sendra, J. R. ; Tabera, L.F.; Villarino, C.: “On Tubular vs. Swung surfaces”. *Journal of Symbolic Computation*, 72, (2016), pp 55-64,

Botana, F.; Recio, T.: “Some issues on the automatic computation of plane envelopes in interactive environments”. *Mathematics and Computers in Simulation* (2016), pp. 115-125. DOI information: 10.1016/j.matcom.2014.05.011.

Botana, F.; Recio, T.: “On the unavoidable uncertainty of truth in dynamic geometry proving”. *Mathematics in Computer Science*, 10(1), 5-25, 2016.

Mallavibarrena, R.; Recio, T.: “Historia de ICMI.es. Contribución de Luis Rico.” *La Gaceta de la RSME*, 19.2, 2016.

Abánades, M.; Botana, F.; Kovács, Z.; Recio, T.; Solyom-Gecse, C.: “Automated discovery of elementary geometry theorems: First steps”. Volume 9725 of *Springer Lecture Notes in Computer Science (LNCS)*, pp.37-42, 2016.

Abánades, M.; Botana, F.; Kovács, Z.; Recio, T.; Solyom-Gecse, C.: “Development of automatic reasoning tools in GeoGebra”. *ACM Communications in Computer Algebra*. Volume 50 Issue 3, September 2016. Pages: 85-88.

Hohenwarter, M.; Kóvács, Z.; Recio, T.: “Deciding geometric properties symbolically in GeoGebra”. *R&E-SOURCE Open Online Journal for Research and Education*. (<http://journal.ph-noe.ac.at>). Special Issue no.6, March 2017, ISSN: 2313-1640

Botana, F.; Recio, T.: Computing envelopes in dynamic geometry environments. *AMAI (Annals of Mathematics and Artificial Intelligence)*, May 2017, Volume 80, Issue 1, pp 3–20. <http://link.springer.com/article/10.1007/s10472-016-9500-3>