

## Curriculum vitae: Enrique Zuazua (Spain, September 28, 1961)

Married (Magaly Roldán), two daughters (Oihane (29) & Ainara (15))

Web of Science ResearcherID: [K-2033-2017](https://orcid.org/0000-0002-1377-0958). ORCID ID: 0000-0002-1377-0958

Email: [enrique.zuazua@fau.de](mailto:enrique.zuazua@fau.de)

Web: <https://dcm.nat.fau.eu/enrique-zuazua/> || <http://paginaspersonales.deusto.es/enrique.zuazua/>

### Current positions

2019- Chair for Dynamics, Control and Numerics - Alexander von Humboldt Professorship, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

2016- Part Time: Distinguished Senior Researcher and Director of the Chair in Computational Mathematics, Deusto Foundation, Bilbao, Basque Country, Spain.

2001- Part Time: Professor, Applied Mathematics, Universidad Autónoma de Madrid, Spain.

### Education

1988 PhD in Mathematics, Université Pierre et Marie Curie, Paris

1987 PhD in Mathematics, University of the Basque Country, UPV/EHU, Bilbao, Spain

1985 Numerical Analysis (DEA/Master), Université Pierre et Marie Curie, Paris

1984 Bachelor Degree in Mathematics, UPV/EHU, Bilbao, Spain.

**Domains of Expertise:** *Control Theory, Numerical Analysis, Partial Differential Equations (PDE), Optimal Design, Data Sciences and Industrial Transfer.*

Our research work had a high impact on the interplay of these disciplines of Applied Mathematics, having led to new analytical results and to the development of novel numerical methods preserving the asymptotic and control properties of PDEs (WoS h-index: 42). These analytical and numerical contributions have been implemented successfully in new computational software, often in a data driven context, applied in a number of industrial projects (optimal shape design in aeronautics and the management of water resources and electrical networks, in particular).

### Impact Factor

*Google Scholar:* Number of Citations: 17687; h-Index: 69

*ISI WoS:* Number of entries: 309; Number of citations 7439; h-Index: 42.

*MathSciNet:* Number of Citations: 7125 times. Number of Publications: 351

### Fellowships and awards

2021 Top Talent Science 2021. Deia Top Talent Sariak 2021

2020 “Txopitea eta Pakea”, Distinction of the Eibar City Hall, Basque Country, Spain

2018 [Alexander von Humboldt Professor](#), FAU Erlangen-Nuremberg (3.5 M€).

2017 Marie Skodowska-Curie Innovative Training Networks, [ConFlex](#) (Control of flexible structures and fluid-structure interactions), (UAM: 287.872,96 €)

2017 Invited profile to “Arbolmat”, El Árbol de las Matemáticas / The tree of Mathematics, UNIVERSIA, <http://www.arbolmat.com/enrique-zuazua/>

2016-2020 Agence Nationale de la Recherche, France: ICON Grant (600 K€).

2016-2022 ERC Advanced Grant [DyCon](#): Dynamic Control (2 M€).

2015- [Ambassador of Friedrich-Alexander-Universität Erlangen-Nürnberg](#), Germany

2015- [Member of Academia Europaea](#)

2015-2020 High-End Foreign Teacher of the University of Sichuan, Chengdu, China

July 2014 [Doctor Honoris Causa](#), Université de Lorraine, France

2014 - 2015 Humboldt Research Award 2013, Univ. of Erlangen-Nürnberg, Germany

2014-2017 Severo Ochoa Excellence Award to BCAM, MINECO, Spain

2013 - 2014 CIMI Excellence Chair, Toulouse, France (Spring Semester)

2013 - 2014 “Research in Paris” Award, Paris City Hall (Fall Semester)

2010 - 2015 ERC Advanced Grant [NUMERIWAVES](#) (1.6 M€)

2008 Best article Prize. Ann. Inst. H. Poincaré, Anal. Non-Linéaire.

2007 [Julio Rey Pastor Spanish National Prize](#) in “Mathematics and Technologies of Information and Communication”.

2007 - Full member of “Jakiunde”, the Basque Academy for Science, Arts and Letters.

2006 Science and Technology Euskadi Prize of the Basque Government.  
2004 "Highly Cited Researcher" by the ISI Institute (Thomson)  
2003 & 2000 IV & I SEMA (Soc. Española Mat. Aplicada) Prize for Mathematical Dissemination.  
1987 Extraordinary Prize for PhD Theses in Sciences, UPV/EHU, Bilbao, Spain.  
1984 Extraordinary Prize for Graduate Studies in Mathematics, UPV/EHU, Bilbao, Spain.

**Supervision of graduate students and postdoctoral fellows.** 26 *PhD*, all holding academic or industrial research positions in Chile, China, Mexico, US, Romania, Spain...: [<http://genealogy.math.ndsu.nodak.edu/id.php?id=88528>]. Mentoring of over 40 *postdocs* (all holding academic or industrial research positions in Spain, France, Italy, UK, USA, China,...). Advisor of 15 *Master Thesis* a network of Research and IT.

**Teaching activities.** Continuous teaching activities since 1987 at all levels (graduate and postgraduate, doctoral and research courses,...).

### **Institutional responsibilities**

2016- Director of the Chair in Computational Mathematics, Deusto Foundation, Bilbao, Spain  
2012 – 2013 Director of BCAM Chair in PDE, Control and Numerics, BCAM, Spain  
2008 – 2012 Founding Scientific Director, BCAM, Bilbao, Spain.  
2001 - 2005 Manager of the Spanish Mathematics Program of the National Research Plan  
1996 - 1999 Chairman of the Department of Applied Mathematics at UCM.

### **Commissions of trust**

- 2019: Selection Committee, Kuwait Prize 2019-Fundamental Sciences
- 2017 – 2018: Member of the Evaluation Panel of the call Synergy Grants 2018 of the European Research Council (ERC).
- Chairman of the Panel "Control and Applications" of ICIAM2011, Beijing, China
- Member of the Panel "Control and Optimization" of ICM2010, Hyderabad, India.
- Member of the International Program Committee, ICM 2006, Madrid, Spain.
- Chairman of the Scientific Committee of [CIMPA](#), Nice, France [2009-2016].
- Scientific Council of CERFACS, Toulouse, France [2006→]
- Scientific Council of "Foundation Mathématique Jacques Hadamard", Paris-Saclay [2012→]
- Scientific Governing Board of [CIMI](#), Toulouse, France, [2012→]
- Member of the "IFAC TC on Distributed-Parameter Systems" [2012→]
- Member of the ESF College of Expert Reviewers [2016→]
- Member of the IMU Circle [2014→]
- Funding Agencies: CNRS (France); AERES (France); ANR (France); DFG (Germany); Irish Research Council, Institut Universitaire de France, FRS/FNRS (Belgium), NSF (USA), NSC (Poland), CONYCIIT (Chile),...

### **Editorial Boards**

**Journals:** *Editor in Chief (EiC)* of "Mathematical Control and Related Fields". *Member of the Editorial Board of:* Scientific Reports - Nature, Journal de Mathématiques pures et appliquées, Mathematical Models and Methods in Applied Sciences, Journal of Differential Equations, Numerische Mathematik, Systems and Control Letters, Asymptotic Analysis, Journal of Optimization Theory and Applications, ESAIM: COCV, Pacific Journal of Math-for-Industry, Acta Applicandae Mathematicae, Networks and Heterogeneous Media, etc.

**Book series:** Mathématiques et Applications (SMAI-Springer); Modelling, Simulation and Applications (Springer); Coordinator of the BCAM – SpringerBriefs Subseries, etc.

**Honorary Lectures:** Lecturer of a number of honorary addresses such as: "The Lezioni Guido Castelnuovo", Rome, 2002; "Edinburgh Mathematical Society", 2005; "Le modèle et l'algorithme", INRIA, Rocquencourt, 2008; "The von Misses Lecture", Humboldt Univ., Berlin, 2008; "Flow control in the presence of shocks", Giornata INDAM, Torino, 2009; "Celebrating Sciences", Nonlinear Physics Laboratory, UK, 2011; "Science et Société", Nancy, France, 2014; Grandes Conférences Publiques du CRM, Montreal, 2016; Perspectivas Matemáticas, IM-UNAM, México, 2016, Closing lecture of the 2017<sup>th</sup> edition of "Ciencia en Acción (Science in Action)", Eibar, Basque Country, Spain, 2017, University of Pittsburgh Michalik Distinguished Lecture Series, 2019; Natural Sciences Distinguished Lecture, Institute of Natural Sciences, Shanghai Jiao Tong University, 2020; Distinguished Lecture for HKSIAM, Hong Kong, 2020.

**Monographic Lectures and Advanced Courses:** Monographic research lectures Algeria, Brazil, Chile, China, Egypt, Finland, France, India, Italy, Japan, Morocco, Mexico, Poland, Portugal, Spain, Turkey, Venezuela and Colombia.

**Outreach Activities:** Public awareness activities collected on the website "[enzuazua](#)"