



Universidad de Oviedo

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**Curriculum Vitae
and
Scientific Activities**

Virginia SELGAS

July 21, 2025

PERSONAL DATA

NAME: Selgas Buznego, Virginia
NATIONALITY: Spanish
DATE OF BIRTH: January 25, 1979
CURRENT ADDRESS: Departamento de Matemáticas, Escuela Politécnica de Ingeniería de Gijón.
C/Luis Ortiz Berrocal s/n, 33203 Gijón, Asturias, Spain.
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EDUCATION AND POSITIONS

ACADEMIC TITLES

<u>ACADEMIC TITLE</u>	<u>UNIVERSITY</u>	<u>DATE</u>
Bachelor in Mathematics, speciality <i>Applied Mathematics and Computation</i>	Universidad de Oviedo (Spain)	September 03, 2001

DOCTORAL PROGRAM

<i>Numerical methods for pde's with applications in Engineering</i>	Universidad de Santiago de Compostela (Spain)	September 29, 2003
ADVISORS:	S. Meddahi (U. Oviedo), P. Salgado (U. Santiago)	

PHD IN MATHEMATICS

<i>Mathematical and numerical analysis of quasi-static Maxwell's equations</i>	Universidad de Oviedo (Spain)	February 17, 2006
PHD ADVISOR:	S. Meddahi (U. Oviedo)	

ACADEMIC HONORS

ORGANISM: Ministerio de Educación y Ciencia (Spain)
GRANT: Beca de Colaboración
TITLE: Trabajo Académicamente Dirigido *Aplicaciones del Álgebra a la teoría de códigos*
ADVISOR: Consuelo Martínez (Universidad de Oviedo, Spain)
DATES: Academic year 2000-2001

ORGANISM: Ministerio de Educación y Ciencia (Spain)
GRANT: National program *Formación de Profesorado Universitario*
DATES: April 01, 2002 - January 11, 2006

ORGANISM: Universidad de Oviedo (Spain) & Andersen Consulting
PRIZE: Premio Fin de Carrera de Matemáticas
DATE: 2001

ORGANISM: Universidad de Oviedo (Spain)
PRIZE: Premio de Licenciatura de Matemáticas 2001-2002
TITLE: Tesis de Licenciatura *Cálculo de ondas acústicas en un medio infinito no homogéneo*
ADVISORS: Salim Meddahi, Antonio Márquez (Universidad de Oviedo, Spain)
DATE: 2003

POSITIONS

<u>POSITION</u>	<u>UNIVERSITY</u>	<u>DATES</u>
Tenured Associate Professor <i>civil servant</i> (Profesor Titular de Universidad)	Universidad de Oviedo (Spain)	Since July 27, 2018
Temporary Associate Professor (Profesor Contratado Dr. Interino)	Universidad de Oviedo (Spain)	From September 01, 2016 To - , 2018
Assistant Professor (Profesor Ayudante Doctor)	Universidad de Oviedo (Spain)	From September 01, 2011 To August 31, 2016
Tenured Associate Professor <i>non-civil servant</i> (Profesor Contratado Doctor)	Universidad de La Coruña (Spain)	Since October 14, 2008 (On leave since August 31, 2011)
Teaching Assistant (Profesor Ayudante LOU)	Universidad de La Coruña (Spain)	From October 04, 2006 To October 10, 2008
Teaching Assistant (Profesor Ayudante LOU)	Universidad de Oviedo (Spain)	From January 12, 2006 To September 30, 2006
Instructor (Becaria FPU, MEC)	Universidad de Oviedo (Spain)	From January 01, 2003 To January 11, 2006

AWARDS AND HONORS

ORGANISM: Sociedad Española de Matemática Aplicada
AWARD: Best article SeMAJournal 2014 for
Variational views of stokeslets and stresslets (with F.J. Sayas)
DATE: 2015

EDITORIAL WORK

Refereeing for:

- SIAM Journals on Applied Mathematics (SIAP) in 2011, 2014, 2018; on Numerical Analysis (SINUM) in 2016; and on Mathematical Analysis (SIMA) in 2016, 2021.
- Inverse Problems (IP) in 2011, 2012, 2013, 2015, 2017, 2019, 2020.
- Applied Numerical Mathematics (APNUM) in 2013, 2014.
- Computers and Mathematics with Applications (CAMWA) in 2017.
- Acta Acoustica united with Acustica (Acta Acust united Ac) in 2017.
- Applied Mathematics and Computation (AMC) in 2017, 2020.
- Inverse Problems and Imaging (IPI) in 2018, 2020.
- Journal of Applied Analysis (Appl Anal) in 2018.
- Journal of Applicable Analysis (GAPA) in 2020.
- International Journal for Numerical Methods in Engineering (IJNME) in 2018, 2019.
- International Journal of Computer Mathematics (GCOM) in 2020.
- Engineering Analysis with Boundary Elements (EABE) in 2020.
- Inverse Problems in Science & Engineering (GIPE) in 2020.
- Journal Of Computational Physics (JCOMP) in 2020.
- Mathematical Methods in the Applied Science (MMA) in 2020.
- SeMA Journal (SEMJ) in 2021.

LANGUAGES

Spanish. Mother tongue.

English. Read, write and speak fluently. Certificate C1 (Escuela Oficial de Idiomas 2016).

Italian. Elementary knowledge.

PUBLICATIONS

RESEARCH INTERESTS

Numerical Analysis and Numerical Simulation of partial differential equations, especially in the following areas:

- finite and boundary elements combination;
- computational electromagnetism;
- qualitative methods in inverse scattering;
- cross-diffusion systems in population dynamics.

PUBLICATIONS IN REFEREED JOURNALS

AUTHORS: S. Meddahi – V. Selgas
TITLE: A mixed-FEM and BEM coupling for a three-dimensional eddy current problem
JOURNAL: *M2AN Math. Model. Numer. Anal.*
VOLUME: 37 (2) PAGES: 291–318 YEAR: 2003

AUTHORS: S. Meddahi – A. Márquez – V. Selgas
TITLE: Computing acoustic waves in an inhomogeneous medium of the plane by a coupling of spectral and finite elements
JOURNAL: *SIAM J. Numer. Anal.*
VOLUME: 41 (5) PAGES: 1729–1750 YEAR: 2003

AUTHORS: S. Meddahi – A. Márquez – V. Selgas
TITLE: A new BEM-FEM coupling strategy for two-dimensional fluid-solid interaction problems
JOURNAL: *Journal of Computational Physics*
VOLUME: 199 PAGES: 205–220 YEAR: 2004

AUTHORS: P. Salgado – V. Selgas
TITLE: A symmetric BEM-FEM coupling for the three dimensional magnetostatic problem using scalar potentials
JOURNAL: *Engineering Analysis with Boundary Elements*
VOLUME: 32/8 PAGES: 633–644 YEAR: 2008

AUTHORS: S. Meddahi – V. Selgas
TITLE: An H-based formulation for a time dependent eddy current problem
JOURNAL: *Applied Numerical Mathematics*
VOLUME: 58 PAGES: 1061–1083 YEAR: 2008

AUTHORS: P. Monk – V. Selgas
TITLE: An inverse fluid-solid interaction problem
JOURNAL: *Inverse Problems and Imaging*
VOLUME: 3 (2) PAGES: 173–198 YEAR: 2009

AUTHORS: S. Meddahi – F.J. Sayas – V. Selgas
TITLE: Non-symmetric coupling of BEM and mixed FEM on polyhedral interfaces
JOURNAL: *Mathematics of Computation*
VOLUME: 80 (273) PAGES: 43–68 YEAR: 2011

AUTHORS: P. Monk – V. Selgas
TITLE: Near field sampling type methods for the inverse fluid-solid interaction problem
JOURNAL: *Inverse Problems and Imaging*
VOLUME: 5 PAGES: 465–483 YEAR: 2011

- AUTHORS: P. Monk – V. Selgas
 TITLE: Sampling type methods for an inverse waveguide problem
 JOURNAL: *Inverse Problems and Imaging*
 VOLUME: 6 (4) PAGES: 709–747 YEAR: 2012
- AUTHORS: P. Monk – V. Selgas
 TITLE: Transmission eigenvalues for dielectric objects on a perfect conductor
 JOURNAL: *Inverse Problems*
 VOLUME: 29 PAGES: 104007 YEAR: 2013
- AUTHORS: F.J. Sayas – V. Selgas
 TITLE: Variational views of stokeslets and stresslets
 JOURNAL: *SeMA Journal*
 VOLUME: 63 PAGES: 65–90 YEAR: 2014
- AUTHORS: G. Galiano – V. Selgas
 TITLE: On a cross-diffusion segregation problem arising from a model of interacting particles
 JOURNAL: *Nonlinear Analysis. Real World Applications*
 VOLUME: 18 PAGES: 34–49 YEAR: 2014
- AUTHORS: V. Selgas
 TITLE: A symmetric BEM–FEM method for an axisymmetric eddy current problem
 JOURNAL: *Applied Numerical Mathematics*
 VOLUME: 79 PAGES: 107–123 YEAR: 2014
- AUTHORS: G. Galiano – V. Selgas
 TITLE: Deterministic particle method approximation of a contact inhibition cross-diffusion problem
 JOURNAL: *Applied Numerical Mathematics*
 VOLUME: 95 PAGES: 229–237 YEAR: 2015
- AUTHORS: G. Galiano – V. Selgas
 TITLE: Analysis of a splitting-differentiation population model leading to cross-diffusion
 JOURNAL: *Computers & Mathematics with Applications*
 VOLUME: 70(12) PAGES: 2933–2945 YEAR: 2015
- AUTHORS: L. Fan – P. Monk – V. Selgas
 TITLE: Time dependent scattering in an acoustic waveguide via convolution quadrature and the Dirichlet-to-Neumann map
 JOURNAL: *Trends in Differential Equations and Applications (SEMA-SIMAI Springer Series)*
 VOLUME: 8 PAGES: 321–337 YEAR: 2016
- AUTHORS: P. Monk – V. Selgas
 TITLE: An inverse acoustic waveguide problem in the time domain
 JOURNAL: *Inverse Problems*
 VOLUME: 32 PAGES: 055001 YEAR: 2016
- AUTHORS: A. Carpio – T.G. Dimiduk – M.L. Rapún – V. Selgas
 TITLE: Noninvasive imaging of 3D micro and nanostructures by topological methods
 JOURNAL: *SIAM Journal on Imaging Sciences*
 VOLUME: 9(3) PAGES: 1324–1354 YEAR: 2016
- AUTHORS: M. González – V. Selgas
 TITLE: Analysis of a velocity-stress-pressure formulation for a fluid-structure interaction problem
 JOURNAL: *Applied Numerical Mathematics*
 VOLUME: 123 PAGES: 275–299 YEAR: 2018

- AUTHORS: A. Carpio – T.G. Dimiduk – V. Selgas – P. Vidal
 TITLE: Optimization methods for in-line holography
 JOURNAL: *SIAM Journal on Imaging Sciences*
 VOLUME: 11(2) PAGES: 923-956 YEAR: 2018
- AUTHORS: S. Kapita – P. Monk – V. Selgas
 TITLE: A Trefftz discontinuous Galerkin method for time-harmonic waves with a generalized impedance boundary condition
 JOURNAL: *Applicable Analysis*
 VOLUME: 99(3) PAGES: 1-28 YEAR: 2018
- AUTHORS: P. Monk – V. Selgas – F. Yang
 TITLE: Near field linear sampling method for an inverse problem in an electromagnetic waveguide
 JOURNAL: *Inverse Problems*
 VOLUME: 35 PAGES: 065001 YEAR: 2019
- AUTHORS: F. Cakoni – P. Monk – V. Selgas
 TITLE: Analysis of the linear sampling method for imaging penetrable obstacles in the time domain
 JOURNAL: *Analysis & PDE*
 VOLUME: 14-3 PAGES: 667–688 YEAR: 2021
- AUTHORS: M. Levitin – P. Monk – V. Selgas
 TITLE: Impedance eigenvalues in linear elasticity
 JOURNAL: *SIAM Journal on Applied Mathematics*
 VOLUME: 81(6) PAGES: 2433–2456 YEAR: 2021
- AUTHORS: P. Monk – V. Selgas
 TITLE: Modified transmission eigenvalues for inverse scattering in a fluid-solid interaction problem
 JOURNAL: *Research in the Mathematical Sciences*
 VOLUME: 9(3) YEAR: 2022
- AUTHORS: T. Laivaara – P. Monk – V. Selgas
 TITLE: The time domain linear sampling method for determining the shape of multiple scatterers using electromagnetic waves
 JOURNAL: *Computational Methods in Applied Mathematics*.
 VOLUME: 22(4) PAGES: 889–913 YEAR: 2022
- AUTHORS: M. Pena – P. Monk – V. Selgas
 TITLE: Multi-frequency linear sampling method on experimental data sets
 JOURNAL: *IEEE Transactions on Antennas and Propagation*
 VOLUME: 71(11) PAGES: 8788–8798 YEAR: 2023
- AUTHORS: U. Karimov – P. Monk – V. Selgas
 TITLE: Imaging sound-soft targets in waveguides using the topological derivative
 JOURNAL: *IP*
 VOLUME: 41(3) PAGES: 035003 YEAR: 2025
- AUTHORS: P. Monk – M. Pena – V. Selgas
 TITLE: Trefftz Discontinuous Galerkin Approximation of an Acoustic Waveguide
 JOURNAL: *SIAM Journal on Numerical Analysis*
 VOLUME: 63(4) PAGES: 10.1137/24M1686905 YEAR: 2025

PUBLICATIONS WITH LIMITED DIFFUSION

AUTHOR: V. Selgas
TITLE: PhD Thesis in CD format
Análisis matemático y numérico de las ecuaciones de Maxwell cuasiestáticas (Spanish)
EDITORIAL: Servicio de Publicaciones, Universidad de Oviedo (Spain)
REFERENCE: ISBN: 84-8317-589-4
YEAR: 2006

RESEARCH FUNDING

RESEARCH GRANTS

PROJECT TITLE: *Ecuaciones en derivadas parciales y modelos matemáticos de medios continuos*
FUNDER: Ministerio de Ciencia y Tecnología (Spain)
PRINCIPAL INVESTIGATOR: Sergei Schmarev
REFERENCE: MEC-04-MTM-05417
DATES: January 1, 2002 - December 14, 2007

FUNDER: Ministerio de Educación y Ciencia (Spain)
PROJECT TITLE: *Métodos matemáticos y numéricos para modelos de ecuaciones en derivadas parciales no lineales y acopladas en finanzas, mecánica y medio ambiente*
PRINCIPAL INVESTIGATOR: Carlos Vázquez Cendón
REFERENCE: MTM2007-67596-C02-01
DATES: December 01, 2007 - November 30, 2010

FUNDER: Consellería de Innovación e Industria, Xunta de Galicia (Spain)
PROJECT TITLE: *Análisis matemático y simulación numérica para problemas acústicos: reducción de ruido emitido y acústica en flujos*
PRINCIPAL INVESTIGATOR: Luis Hervella Nieto
REFERENCE: PGIDIT07PXIB105257PR
DATES: November 01, 2007 - October 31, 2010

PROJECT TITLE: *Modelos, análisis matemático y resolución numérica de algunos problemas en ciencia e ingeniería basados en EDPs*
FUNDER: Ministerio de Ciencia e Innovación (Spain)
PRINCIPAL INVESTIGATOR: Carlos Vázquez Cendón
REFERENCE: MTM2010-21135-C02-01
DATES: January 01, 2011 - December 31, 2014

PROJECT TITLE: *Estudio analítico y numérico de algunos modelos de la mecánica de medios continuos, dinámica de poblaciones y procesamiento de imágenes*
FUNDER: Ministerio de Economía y Competitividad (Spain)
PRINCIPAL INVESTIGATORS: Salim Meddahi Bouras, Gonzalo Galiano Casas
REFERENCE: MTM2013-43671-P
DATES: January 01, 2014 - December 31, 2017

PROJECT TITLE: *Análisis matemático y numérico de modelos de la mecánica de medios continuos, el electromagnetismo y la teoría de la señal*
FUNDER: Ministerio de Economía, Industria y Competitividad (Spain)
PRINCIPAL INVESTIGATORS: Salim Meddahi Bouras, Gonzalo Galiano Casas
REFERENCE: MTM2017-87162-P
DATES: January 01, 2018 - December 31, 2021

PROJECT TITLE: *Ecuaciones en derivadas parciales y modelos de la mecánica de medios continuos*
FUNDER: Ministerio de Ciencia e Innovación (Spain)
PRINCIPAL INVESTIGATORS: Sergey Shmarev, Gonzalo Galiano Casas
REFERENCE: MCI-21-PID2020-116287GB-I00
DATES: Since September 01, 2021

GRANTS FOR THE CONSOLIDATION OF RESEARCH GROUPS

PROJECT TITLE: Red Mathematica COMPUTING & CONSULTING, Galicia (Spain)
FUNDER: Xunta de Galicia (Spain)
PRINCIPAL INVESTIGATOR: Wenceslao González Manteiga
REFERENCE: Exp. 95/2006
DATES: January 01, 2006 - December 31, 2008

PROJECT TITLE: Red gallega de cálculo de altas prestaciones (Spain)
FUNDER: Xunta de Galicia (Spain)
PRINCIPAL INVESTIGATOR: Ramón Doallo Biempica
REFERENCE: Exp. 2007/147
DATES: January 1, 2008 - December 31, 2010

PRESENTATIONS AND SEMINARS

INVITED PRESENTATIONS

AUTHORS: P. Monk, V. Selgas
TITLE: The linear sampling method for a near or far field inverse fluid–structure interaction problem
WORKSHOP: Special Trimester on Inverse Problems
VENUE: A Coruña (Spain)
YEAR: 2011

AUTHORS: P. Salgado, V. Selgas
TITLE: A symmetric bem–fem method for an axisymmetric eddy current problem
WORKSHOP: *Workshop on Numerical Electromagnetics and Industrial Applications NELIA 2011*
VENUE: Santiago de Compostela (Spain)
YEAR: 2011

AUTHORS: P. Monk, V. Selgas
TITLE: Transmission eigenvalues for a dielectric object resting on a perfect conductor
CONFERENCE: *Fluid dynamics and electromagnetism: theory and numerical approximation*
VENUE: Trento (Italy)
YEAR: 2014

AUTHORS: P. Monk, V. Selgas
TITLE: *Sampling type methods for an inverse wave guide problem posed in the frequency domain or in the time domain*
WORKSHOP: Numerical Resolution for Inverse Problems II
VENUE: BCAM (Bilbao, Spain)
YEAR: 2016

AUTHORS: P. Monk, V. Selgas
TITLE: An inverse problem for a waveguide in the frequency and the time domains
WORKSHOP: Oberwolfach Workshop *Theory and Numerics of Inverse Scattering Problems*
VENUE: Mathematical Research Institute of Oberwolfach (Germany)
YEAR: 2016

AUTHORS: P. Monk, F. Cakoni, V. Selgas
TITLE: An overview of the linear sampling method in the time domain and its analysis for imaging penetrable obstacles
WORKSHOP: *Numerical Analysis and Regularization for Inverse Problems*
VENUE: University College of London (London, U.K.)
YEAR: 2018

AUTHORS: M. Levitin, P. Monk, V. Selgas
TITLE: Characterization of targets using modified transmission eigenvalues for a fluid–solid interaction problem
WORKSHOP: *Zaragoza Numérica*
VENUE: University of Zaragoza (Zaragoza, Spain)
YEAR: 2022

CONTRIBUTED PRESENTATIONS

- AUTHORS: S. Meddahi, A. Márquez, V. Selgas
TITLE: A coupling of spectral and finite elements for an acoustic scattering problem
CONFERENCE: *WAVES 2003*
PUBLICATION: Proceedings *Mathematical and numerical aspects of wave propagation*, Springer, 280–286
VENUE: Jyväskylä (Finland)
YEAR: 2003
- AUTHORS: S. Meddahi, A. Márquez, V. Selgas
TITLE: A coupling of spectral and finite elements for an acoustic scattering problem in the plane
CONFERENCE: *CEDYA 2003*
PUBLICATION: Proceedings *XVIII CEDYA, VIII CMA*, 205–206
VENUE: Tarragona (Spain)
YEAR: 2003
- AUTHORS: S. Meddahi, A. Márquez, V. Selgas
TITLE: Un acoplamiento BEM-FEM para un problema bidimensional de interacción fluido-sólido (Spanish)
CONFERENCE: *CEDYA 2003*
PUBLICATION: Proceedings *XVIII CEDYA, VIII CMA*, 201–202
VENUE: Tarragona (Spain)
YEAR: 2003
- AUTHORS: S. Meddahi, V. Selgas
TITLE: A mixed-BEM and FEM coupling for a three-dimensional eddy current problem
CONFERENCE: *III International conference on boundary integral methods: theory and applications*
VENUE: Reading (United Kingdom)
YEAR: 2004
- AUTHORS: S. Meddahi, V. Selgas
TITLE: A BEM-FEM formulation for a time dependent eddy current problem
CONFERENCE: *VI European conference on numerical mathematics and advanced applications*
PUBLICATION: Proceedings, Springer
VENUE: Santiago de Compostela (Spain)
YEAR: 2005
- AUTHORS: S. Meddahi, V. Selgas
TÍTULO: Análisis matemático y numérico de las ecuaciones de Maxwell cuasiestáticas (Spanish)
CONFERENCE: *XIX CEDYA – IX CMA*
PUBLICATION: Proceedings in CD format, ISBN 84-689-7726-8
VENUE: Leganés (Spain)
YEAR: 2005
- AUTHORS: P. Salgado, V. Selgas
TITLE: Analysis of a symmetric BEM-FEM method for the 3d magnetostatic problem using scalar potentials
CONFERENCE: *WCCM8 –ECCOMAS 2008*
VENUE: Venice (Italy)
YEAR: 2008

AUTHORS: P. Monk, V. Selgas
 TITLE: An inverse fluid–solid interaction problem
 CONFERENCE: *WAVES 2009*
 VENUE: Pau (France)
 YEAR: 2009

AUTHORS: P. Monk, V. Selgas
 TITLE: Un problema inverso de interacción fluido–sólido (Spanish)
 CONFERENCE: *XXI CEDYA – XI CMA*
 PUBLICATION: Proceedings in CD format (ISBN 84-692-6473-7)
 VENUE: Ciudad Real (Spain)
 YEAR: 2009

AUTHORS: P. Monk, V. Selgas
 TITLE: Near field sampling type methods for an inverse fluid-solid interaction problem
 CONFERENCE: *PICOF'10*
 VENUE: Cartagena (Spain)
 YEAR: 2010

AUTHORS: P. Monk, V. Selgas
 TITLE: Linear sampling and reciprocity gap methods for a fluid solid interaction problem in the near field
 CONFERENCE: *ICNAAM 2011*
 VENUE: Halkidiki (Greece)
 YEAR: 2011

AUTHORS: M. Glez. Taboada, V. Selgas
 TITLE: A new numerical scheme for a linear fluid–structure interaction problem
 CONFERENCE: *COUPLED PROBLEMS 2011*
 VENUE: Kos (Greece)
 YEAR: 2011

AUTHORS: M. Glez. Taboada, V. Selgas
 TITLE: Un método numérico nuevo para un problema de interacción fluido–sólido lineal (Spanish)
 CONFERENCE: *XXII CEDYA / XII CMA*
 PUBLICATION: Proceedings, 170
 VENUE: Palma de Mallorca (Spain)
 YEAR: 2011

AUTHORS: P. Monk, V. Selgas
 TITLE: Linear sampling and reciprocity gap methods for an inverse waveguide problem
 CONGRESO: *PICOF'12*
 VENUE: Paris (France)
 YEAR: 2012

AUTHORS: P. Salgado, V. Selgas
 TITLE: Approximation of eddy currents in an axisymmetric unbounded domain
 CONFERENCE: *MAFELAP 2013*. Conference on the Mathematics of Finite Elements and Applications
 VENUE: Brunel (United Kingdom)
 YEAR: 2013

AUTHORS: P. Monk, V. Selgas
 TITLE: Transmission eigenvalues for a dielectric object resting on a perfect conductor
 CONFERENCE: *ECMI 2014*. 18th European Conference on Mathematics for Industry
 VENUE: Taormina (Italy)
 YEAR: 2014

AUTHORS: P. Monk, V. Selgas
 TITLE: A transmission eigenvalue problem with mixed boundary conditions for Maxwell's equations in half space
 CONFERENCE: *AIP 2015*. Applied Inverse Problems conference 2015
 VENUE: Helsinki (Finland)
 YEAR: 2015

AUTHORS: P. Monk, V. Selgas
 TITLE: A time domain Linear Sampling Method for a wave guide
 CONFERENCE: *XXIV CEDYA - XIV CMA*.
 VENUE: Cádiz (Spain)
 YEAR: 2015

AUTHORS: G. Galiano, V. Selgas
 TITLE: Analysis of a splitting-differentiation population model leading to cross-diffusion
 CONFERENCE: *ECMI 2016*. 19th European Conference on Mathematics for Industry
 VENUE: Santiago de Compostela (Spain)
 YEAR: 2016

AUTHORS: P. Monk, V. Selgas
 TITLE: A time domain Linear Sampling Method for a waveguide
 CONFERENCE: *International Conference on Computational Mathematics and Inverse Problems 2nd Kliakhandler Conference*
 VENUE: Houghton MI (USA)
 YEAR: 2016

AUTHORS: G. Galiano, V. Selgas
 TITLE: Analysis of a process of splitting-differentiation leading to cross-diffusion
 CONFERENCE: *XXV CEDYA - XV CMA*
 VENUE: Cartagena (Spain)
 YEAR: 2017

AUTHORS: F. Cakoni, P. Monk, V. Selgas
 TITLE: Analysis of the time domain linear sampling method for imaging penetrable scatterers
 CONFERENCE: *II Joint Meeting RSME-SEMA-SBM-SBMAC*
 VENUE: Cádiz (Spain)
 YEAR: 2018

AUTHORS: M. Levitin, P. Monk, V. Selgas
 TITLE: Eigenvalues in inverse scattering for a fluid–solid interaction
 CONFERENCE: *9th International Congress on Industrial and Applied Mathematics*
 VENUE: Valencia (Spain)
 YEAR: 2019

AUTHORS: P. Monk, V. Selgas
 TITLE: The time domain linear sampling method for Maxwell's equations with an impedance boundary condition
 CONFERENCE: *XXVI CEDYA - XVI CMA*
 VENUE: Gijón (Spain)
 YEAR: 2021

- AUTHORS: M. Levitin, P. Monk, V. Selgas
 TITLE: Steklov and modified interior transmission eigenvalues as target signatures in an inverse fluid–solid interaction problem
 CONFERENCE: *XXVI CEDYA - XVI CMA*
 VENUE: Gijón (Spain)
 YEAR: 2021
- AUTHORS: T. Läävaara, P. Monk, V. Selgas
 TITLE: El método de muestreo lineal para las ecuaciones de Maxwell en régimen de evolución
 CONFERENCE: *Congreso Bienal RSME*
 VENUE: Ciudad Real (Spain)
 YEAR: 2022
- AUTHORS: M. Levitin, P. Monk, V. Selgas
 TITLE: Steklov and modified transmission eigenvalues as target signatures in an inverse fluid-solid interaction problem
 CONFERENCE: *10th International Conference "Inverse Problems: Modeling and Simulation"*
 VENUE: Malta
 YEAR: 2022
- AUTHORS: T. Läävaara, P. Monk, V. Selgas
 TITLE: Imaging electromagnetic scatterers in the time domain
 CONFERENCE: *XXVII CEDYA - XVII CMA*
 VENUE: Zaragoza (Spain)
 YEAR: 2022
- AUTHORS: P. Monk, V. Selgas
 TITLE: A new family of modified interior transmission eigenvalues for inverse fluid-solid interaction problem
 CONFERENCE: *AIP 2023*
 VENUE: Göttingen (Germany)
 YEAR: 2023
- AUTHORS: P. Monk, M. Pena, V. Selgas
 TITLE: Numerical simulation of wave propagation in a waveguide using Trefftz elements
 CONFERENCE: *WONAPDE 2024*
 VENUE: Concepción (Chile)
 YEAR: 2024
- AUTHORS: P. Monk, M. Pena, V. Selgas
 TITLE: A Trefftz Discontinuous Galerkin method for the time-harmonic wave propagation in a waveguide
 CONFERENCE: *Bienal Real Sociedad Matemática Española*
 VENUE: Pamplona (Spain)
 YEAR: 2024

AUTHORS: P. Monk, M. Pena, V. Selgas
TITLE: A Trefftz Discontinuous Galerkin method for the acoustic scattering
in a waveguide
CONFERENCE: *XXVIII CEDYA - XVIII CMA*
VENUE: Bilbao (Spain)
YEAR: 2024

AUTHORS: P. Monk, M. Pena, V. Selgas
TITLE: A Trefftz Discontinuous Galerkin method for the simulation of
acoustic scattering in a waveguide
CONFERENCE: *PoWER2025: Propagation of Waves, European Researchers*
VENUE: Vienna (Austria)
YEAR: 2025

SEMINAR TALKS

- UNIVERSITY: Universidad de A Coruña
TITLE: *Análisis matemático y numérico de las ecuaciones de Maxwell cuasiestáticas* (Spanish)
VENUE: La Coruña (Spain) YEAR: 2006
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *Analysis of a symmetric BEM–FEM method for the 3d magnetostatic problem using scalar potentials*
VENUE: Newark DE (U.S.A.) YEAR: 2007
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *Non-symmetric coupling of mixed FEM and BEM on polyhedral surfaces*
VENUE: Newark DE (U.S.A.) YEAR: 2009
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *A BEM-FEM method for an axisymmetric eddy currents problem*
VENUE: Newark DE (U.S.A.) YEAR: 2012
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *Approximation of eddy currents in an axisymmetric unbounded domain*
VENUE: Newark DE (U.S.A.) YEAR: 2013
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *Linear sampling techniques for an inverse wave guide problem posed in the frequency or the time domain*
VENUE: Newark DE (U.S.A.) YEAR: 2016
- UNIVERSITY: Universidad de Sevilla (Sevilla, Spain)
TITLE: *Estudio de un modelo de desdoblamiento de una población con o sin diferenciación*
VENUE: Departamento de Ecuaciones Diferenciales y Análisis Numérico (EDAN), Instituto de Investigación en Matemáticas de la Universidad de Sevilla (IMUS) Sevilla (Spain) YEAR: 2017
- AUTHORS: M. Levitin, P. Monk, V. Selgas
TITLE: *Autovalores de transmisión interna modificados para un problema inverso de interacción fluido-estructura*
MEETING: Seminars of the Department of Applied Mathematics
VENUE: Online, for the University of Santiago de Compostela (Spain)
YEAR: 2023
- UNIVERSITY: University of Delaware (Newark DE, U.S.A.)
TITLE: *Numerical simulation of wave propagation in a waveguide with Trefftz Discontinuous Galerkin elements*
VENUE: Newark DE (U.S.A.) YEAR: 2024

CONTRIBUTED POSTERS

AUTORES: S. Meddahi, V. Selgas
TITLE: Combinación de FEM mixtos-BEM para un problema de *eddy currents* (Spanish)
CONFERENCE: *XI Escuela hispano-francesa*
VENUE: Cádiz (Spain)
YEAR: 2004

AUTHORS: P. Monk, V. Selgas
TITLE: Transmission eigenvalues for dielectric objects on a perfect conductor
CONFERENCE: *International Conference on Novel Directions in Inverse Scattering 2013.*
VENUE: Newark (Delaware, U.S.A.)
YEAR: 2013

RESEARCH ACTIVITIES

BOARDS

- Executive Committee of the Spanish Society of Applied Mathematics
Sociedad Española de Matemática Aplicada (SeMA)
YEAR: since June 2023
- Vice president of the Spanish Society of Applied Mathematics
Sociedad Española de Matemática Aplicada (SeMA)
YEAR: since July 2024
- Committee to select the SeMA proposal for ECCOMAS PhD award
Sociedad Española de Matemática Aplicada (SeMA)
YEARS: 2020-2022, 2024
- Local evaluation committee at University of Oviedo for IMI Mathematical Modelling Competition
CMM-IMI
YEARS: 2020-2023
- Evaluation committee for the assessment of applications for grants to promote units of excellence among the institutes and research groups of the University of Oviedo
YEAR: 2024

ORGANIZATION OF MEETINGS

- Course *XIV Escuela de Otoño Hispano Francesa Jacques-Louis Lions sobre Simulación Numérica en Física e Ingeniería*
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA),
Institut National de Recherche en Informatique et Automatique (INRIA)
VENUE: La Coruña (Spain)
YEAR: 2010
- Course *XVII Escuela de Otoño Hispano Francesa Jacques-Louis Lions sobre Simulación Numérica en Física e Ingeniería*
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA),
Institut National de Recherche en Informatique et Automatique (INRIA)
VENUE: Gijón (Spain)
YEAR: 2016
- Conference *XXVI CEDYA - XVI CMA*
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA)
VENUE: Gijón (Spain)
YEAR: 2021
- BIRS-CMO Contemporary Challenges in Trefftz Methods, from Theory to Applications*
ORGANIZERS: Helene Barucq, Lise-Marie Imbert-Gerard, Ilaria Perugia, Virginia Selgas
VENUE: Oaxaca (Mexico)
YEAR: 2024

SCHOLARSHIPS AND VISITING POSITIONS

Predoctoral scholarships

PLACE: Dipartimento di Matematica, Università degli Studi di Trento (Trento, Italy)
FUNDING: Ministerio de Educación y Ciencia (through the Program for FPU grants, Spain)
DATES: October 02, 2003 - January 02, 2004
May 04, 2004 - July 23, 2004

Postdoctoral scholarships

PLACE: Department of Mathematical Sciences, University of Delaware (Newark DE, U.S.A.)
FUNDING: Program INCITE, Xunta de Galicia (Spain) in 2007/2008,
Project MTM2007-67596-C02-01, Ministerio de Educación y Ciencia (Spain) in 2009
Project FA9550-21135-C02-01, US-AFSR (USA) in 2012
Project of Campus of International Excellence, Universidad de Oviedo (Spain) from 2013 to 2018
DATES: - November 14, 2007 - January 31, 2008
- January 26, 2009 - February 26, 2009
- April 16, 2012 - April 25, 2012
- February 06, 2013 - March 06, 2013
- April 30, 2014 - May 30, 2014
- July 17, 2017 - August 24, 2017
- July 30, 2018 - September 14, 2018
- October 1, 2024 - October 31, 2024

PLACE: Department of Mathematics, Brunel University (London, U.K.)
FUNDING: Project MTM2010-21135-C02-01, Ministerio de Ciencia e Innovación (Spain)
DATES: March 20, 2011 - March 25, 2011
June 06, 2011 - June 10, 2011

PLACE: Departamento de Fundamentos Matemáticos, ETSI Aeronáuticos
Universidad Politécnica de Madrid (Madrid, Spain)
FUNDING: Project FIS2011-28838-C02-02, Ministerio de Ciencia e Innovación (Spain)
DATES: July 01, 2013 - July 05, 2013
April 22, 2014 - April 25, 2014

PLACE: Department of Mathematics, University of Rutgers (New Brunswick NJ, U.S.A.)
FUNDING: Project MTM2013-43671-P, Ministerio de Economía y Competitividad (Spain)
DATES: February 15th, 2016 - March 30, 2016

PLACE: Departamento de Matemática Aplicada, Facultad de Matemáticas
Universidad Complutense de Madrid (Madrid, Spain)
FUNDING: Project MTM2013-43671-P, Ministerio de Economía y Competitividad (Spain)
DATES: January 09, 2013 - January 13, 2017

PLACE: Departamento de Ecuaciones Diferenciales y Análisis Numérico (EDAN)
and Instituto de Investigación en Matemáticas (IMUS)
Universidad de Sevilla (Seville, Spain)
FUNDING: IMUS' fundings
DATES: May 28, 2017 - June 02, 2017

ATTENDANCE TO COURSES

Escuela de Matemáticas Lluís Santaló
ORGANIZER: Universidad Internacional Menéndez Pelayo
VENUE: Santander (Spain)
YEAR: 2002

X Escuela de Otoño Hispano Francesa sobre Simulación Numérica en Física e Ingeniería
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA),
Institut National de Recherche en Informatique et Automatique (INRIA)
VENUE: Jaca (Spain)
YEAR: 2002

XI Escuela de Otoño Hispano Francesa sobre Simulación Numérica en Física e Ingeniería
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA),
Institut National de Recherche en Informatique et Automatique (INRIA)
VENUE: Cádiz (Spain)
YEAR: 2004

Zaragoza Numérica: Curso y encuentro de análisis numérico
ORGANIZER: Universidad de Zaragoza
VENUE: Zaragoza
YEAR: 2005

Zaragoza Numérica: Curso y encuentro de análisis numérico
ORGANIZER: Universidad de Zaragoza
VENUE: Zaragoza
YEAR: 2007

II Curso intensivo i-Math de software libre orientado a ciencias e ingeniería: Course Programación en Python orientado a la ingeniería
ORGANIZERS: i-Math, Universidad de A Coruña
VENUE: La Coruña (Spain)
YEAR: 2009

Course i-Math short course on numerical electromagnetism and industrial applications
ORGANIZERS: i-Math, Universidad de Santiago de Compostela
VENUE: Santiago de Compostela (Spain)
YEAR: 2010

Course i-Math summer school on mathematical modeling and numerical simulation of the cardiovascular system
ORGANIZERS: i-Math, Universidad de A Coruña
VENUE: La Coruña (Spain)
YEAR: 2010

XIV Escuela de Otoño Hispano Francesa Jacques–Louis Lions sobre Simulación Numérica en Física e Ingeniería
ORGANIZERS: Sociedad Española de Matemática Aplicada (SEMA),
Institut National de Recherche en Informatique et Automatique (INRIA)
VENUE: La Coruña (Spain)
YEAR: 2010

III Jornadas de Consulta Matemática para empresas e instituciones
ORGANIZERS: i-Math, Universidad de Santiago de Compostela, Universidad de Vigo
VENUE: Santiago de Compostela (Spain)
YEAR: 2010

- ORGANIZER: Course *Iniciación al paquete estadístico R*
 Unidad de Consultoría Estadística (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2012
- ORGANIZER: Course *Topics in computational electromagnetism*
 by A. Valli from Università degli Studi di Trento (Italy)
 Departamento de Matemática Aplicada, Universidad de Santiago de Compostela
 VENUE: Santiago de Compostela (Spain)
 YEAR: 2013
- ORGANIZER: Course *On the approximation of multiphysics problems*
 by A. Quarteroni from École Polytechnique Fédérale de Lausanne (Switzerland)
 and Politecnico di Milano (Italy)
 Departamento de Matemática Aplicada, Universidad de Santiago de Compostela
 VENUE: Santiago de Compostela (Spain)
 YEAR: 2013
- ORGANIZER: Course *Cómo elaborar y redactar un proyecto de investigación en ciencias
 de la computación e informática*
 Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2013
- ORGANIZER: Course *Edición de imágenes digitales para la docencia y la investigación
 a través de software libre*
 Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2013
- ORGANIZER: Course *Introducción a la programación de dispositivos móviles con Android*
 Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2014
- ORGANIZER: Course *Quién cita mis artículos y dónde publicarlos:
 Web of Science, Journal Citation Reports y otros recursos de calidad*
 Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2014
- ORGANIZERS: *XVII Escuela de Otoño Hispano Francesa Jacques-Louis Lions sobre
 Simulación Numérica en Física e Ingeniería*
 Sociedad Española de Matemática Aplicada (SEMA),
 Institut National de Recherche en Informatique et Automatique (INRIA)
 VENUE: Gijón (Spain)
 YEAR: 2016
- ORGANIZERS: Course *El arte de hablar en público: cómo presentar y defender
 una comunicación científica en inglés*
 Campus Digital Compartido del Grupo 9 de Universidades
 VENUE: Online
 YEAR: 2021
- ORGANIZERS: Course *Introducción al lenguaje Python*
 Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Online
 YEAR: 2024

RECOGNITION OF RESEARCH ACTIVITY

3 positive six-year evaluation (2003–2008, 2009–2014, 2015–2021), by the Spanish evaluation agency *Comisión Nacional Evaluadora de la Actividad Investigadora* (Spain).

TEACHING

UNDERGRADUATE COURSES

Undergraduate courses taught at the Universidad de La Coruña (Spain) between 2006 and 2011.

- Course *Cálculo* (School of Engineering). Fall'2006, Fall'2006, Fall'2007, Fall'2008, Fall'2009, Fall'2010.
- Course *Computación Numérica* (School of Engineering). Spring'2007, Spring'2008, Spring'2009, Spring'2010, Spring'2011.
- Course *Lógica Matemática* (School of Teaching). 2009-2010, 2010-2011.

Undergraduate courses taught at the Universidad de Oviedo (Spain).

- Course *Análisis Numérico III* (School of Mathematics), Assistant: Spring'2003, Spring'2004, Spring'2005.
- Course *Análisis I* (School of Mathematics), Spring'2006.
- Course *Análisis Matemático* (School of Physics), Spring'2006.
- Course *Ecuaciones Diferenciales Ordinarias* (School of Physics), Spring'2006.
- Course *Aspectos prácticos sobre la resolución numérica de problemas de la física matemática* (School of Mathematics and Physics). Assistant: Spring'2003, Spring'2004, Spring'2005.
- Course *Cálculo* (School of Engineering EPIG). Fall'2011, Fall'2016.
- Course *Álgebra Lineal* (School of Engineering EPIG). Fall'2011.
- Course *Linear Algebra* (in English, School of Engineering EPIG). Fall'2012, Fall'2013, Fall'2014, Fall'2015, Fall'2019, Fall'2020, Fall'2021.
- Course *Métodos Numéricos* (School of Engineering EPIG). Spring'2017, Spring'2018.
- Course *Numerical Methods* (in English, School of Engineering EPIG). Spring'2022.
- Course *Numerical Methods* (in English, School of Engineering EPM). Spring'2017, Spring'2018.
- Course *Linear Algebra* (in English, School of Engineering EPM). Fall'2017, Fall'2018.
- Course *Advanced Calculus* (in English, School of Engineering EPIG). Spring'2020, Spring'2021.

GRADUATE COURSES

Master course taught at the Universidad de La Coruña (Spain).

- Course *Introducción al método de elementos de contorno* (from Universidad de A Coruña, followed at Universidad de Santiago de Compostela and Universidad de Vigo through videoconference). Springs from 2007 until 2016.

Other activities.

- Reviewer in the Doctoral Programme in Applied Sciences with major in Mathematical Engineering, Universidad de Concepción (Chile) in 2017.
- Tribunal of the doctoral thesis *Numerical resolution of Fokker-Plank type kinetic equations* (N. Jumaniyazov) in Universidad de Santiago de Compostela (Spain) in 2017.
- Tribunal of the doctoral thesis *Análisis teórico y numérico de problemas diferenciales con quimiotaxis repulsiva* (D.A. Rueda) in Universidad de Sevilla (Spain) in 2018.

ATTENDANCE TO COURSES

Programa de formación para la docencia universitaria:

Course *Técnicas de aprendizaje cooperativo*

ORGANIZER: Instituto de ciencias de la educación (Universidad de Oviedo)

VENUE: Oviedo (Spain)

YEAR: 2006

Plano de Apoio ao Ensino:

Course *Estratexias metodolóxicas na aula universitaria*

ORGANIZER: Centro universitario de formación e innovación educativa (Universidad de La Coruña)

VENUE: A Coruña (Spain)

YEAR: 2008

Plano de Apoio ao Ensino:

Course *Técnicas de relaxación e saúde*

ORGANIZER: Centro universitario de formación e innovación educativa (Universidad de La Coruña)

VENUE: A Coruña (Spain)

YEAR: 2008

Plano de Apoio ao Ensino:

Course *Técnicas para falar en público orientadas á pronunciación de comunicacións e conferencias*

ORGANIZER: Centro universitario de formación e innovación educativa (Universidad de La Coruña)

VENUE: A Coruña (Spain)

YEAR: 2008

Plano de Apoio ao Ensino:

Course *Concepción da titoría no ensino universitario*

ORGANIZER: Centro universitario de formación e innovación educativa (Universidad de La Coruña)

VENUE: A Coruña (Spain)

YEAR: 2011

Course *Cómo utilizar el Campus Virtual en la Universidad de Oviedo: Nivel avanzado*

ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)

VENUE: Oviedo (Spain)

YEARS: 2011, 2012

Course *Aplicación integral de TIC para la impartición de asignaturas con apoyo de aulas informáticas*

ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)

VENUE: Gijón (Spain)

YEAR: 2012

Course *SEBSCO. Una experiencia alternativa para evaluar competencias*

ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)

VENUE: Oviedo (Spain)

YEAR: 2012

Course *Software libre en la actividad académica universitaria*

ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)

VENUE: Gijón (Spain)

YEAR: 2012

Course *La pizarra digital*

ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)

VENUE: Gijón (Spain)

YEAR: 2012

- Course *Medios, técnicas e instrumentos para la evaluación del aprendizaje en competencias*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2012
- Course *Cómo manejar la nueva versión de la plataforma del Campus Virtual de la Universidad de Oviedo*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2012
- Course *Curso preparatorio para las pruebas de inglés IELTS (nivel B2)*
 ORGANIZER: Casa de las Lenguas (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2012
- Course *Evaluación objetiva del alumnado. Enfoques, métodos y técnicas*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2013
- Course *Cómo planificar una tutoría grupal. Algunos ejemplos prácticos*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2014
- [2ex] Course *La mentoría entre iguales como estrategia de orientación en la universidad Metodología y procesos*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón (Spain)
 YEAR: 2014
- Course *Revisión de los procesos de acceso y admisión a estudios de Grado universitarios*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2015
- Course *Normativa sobre evaluación de los estudiantes universitarios*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2015
- Course *Cómo utilizar el Campus Virtual de la Universidad de Oviedo. Curso Complementario*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Oviedo (Spain)
 YEAR: 2015
- Course *Educación Digital Inclusiva: Diseño de Contenidos y Recursos Accesibles*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2017

Course *Combinando el uso de MaLab, OneDrive y Campus Virtual en las Prácticas de Laboratorio*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: Gijón
 YEAR: 2019

Course *Generación de exámenes con preguntas aleatorias a partir de plantillas (II ed)*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2020

Course *Autoformación para adaptar la docencia a los entornos mixtos Áreas científico-técnicas (nivel inicial)*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2020

Course *Autoformación para la adaptación a la evaluación no presencial (I ed)*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2020

Course *Campus Virtual de la Universidad de Oviedo. Nivel Inicial*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2020

Course *Campus Virtual de la Universidad de Oviedo. Nivel Avanzado*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2020

Course *El arte de hablar en público: cómo presentar y defender una comunicación científica en inglés*
 ORGANIZER: Campus Digital Compartido del Grupo 9 de Universidades
 VENUE: *Online*
 YEAR: 2021

Course *Creación de gráficos vectoriales con software libre INKSCAPE*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2022

Course *Herramientas para la tutela de Trabajos de Fin de Grado (TFG)*
 ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
 VENUE: *Online*
 YEAR: 2022

Seminar *Tus estudiantes usan ChatGPT y lo sabes*
 ORGANIZER: Campus Digital Compartido del Grupo 9 de Universidades
 VENUE: *Online*
 YEAR: 2023

Course *LaTeX fundamental para la edición de documentos académicos*
ORGANIZER: Campus Digital Compartido del Grupo 9 de Universidades
VENUE: *Online*
YEAR: 2023

Course *Evaluación del aprendizaje en prácticas: MATLAB grader y MS-Teams*
ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
VENUE: *Online*
YEAR: 2023

Course *Introducción al lenguaje Python*
ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
VENUE: *Online*
YEAR: 2024

Course *Herramientas del Campus Virtual para la planificación de la docencia online*
ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
VENUE: *Online*
YEAR: 2024

Course *Herramientas del Campus Virtual para la evaluación y seguimiento*
ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
VENUE: *Online*
YEAR: 2024

Course *Creación de webs mediante WordPress*
ORGANIZER: Instituto de Ciencias de la Educación (Universidad de Oviedo)
VENUE: *Online*
YEAR: 2024

TEACHING GRANTS

PROGRAM: Project for teaching innovation
V Convocatoria de Contratos Programa para el Diseño Estratégico
y la Innovación Docente (Universidad de La Coruña, Spain)
COURSE: Elementos de contorno
ACADEMIC YEAR: 2009–2010

PROGRAM: Project for teaching innovation
Convocatoria 2020 de Proyectos de Innovación docente
PINN-20-B-018 (Universidad de Oviedo, Spain)
TITLE: Flashcards como herramienta de microaprendizaje para el estudio
de conceptos matemáticos II
ACADEMIC YEAR: 2020–2021

RECOGNITION OF TEACHING ACTIVITY

2 positive five-year evaluation (2002–2007 and 2007–2012), by the Galician evaluation agency *Agencia de Calidad del Sistema Universitario Gallego* (Spain).
