

Andrés Amador Garcia Granada
Department of Industrial Engineering
IQS School of Engineering
Grup d'Enginyeria de Productes Industrials
Email: andres.garcia@iqs.url.edu



Qualifications

PhD, Mechanical Engineering. The Influence of Combined Thermal and Mechanical Loading on Fatigue Improvement Methods and Advanced. university of Bristol
Award Date: 14 Dec 2000

Bachelor, Eng.Industrial Mecànic Estructures. UPC [7,52], Universitat Politècnica de Catalunya
Award Date: 1 Oct 1996

Employment

Department of Industrial Engineering

Ramon Llull University
1 Sept 2017 → present

IQS School of Engineering

Ramon Llull University
1 Sept 2017 → present

Grup d'Enginyeria de Productes Industrials

Ramon Llull University
20 Dec 2012 → present

25.11.2019 Patent for arterial repair PATCH DEPLOYMENT DEVICE
<https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2021058602&tab=PCTBIBLIO>

Research outputs

Automated tool for cylindrical glass container blow and blow mold design

Fibla-Figuerola, O., Biosca, A., Pedret-Clemente, V., Rostro-González, H., Menacho, J. & García-Granada, A. A., 12 Mar 2025, (E-pub ahead of print) In: International Journal of Applied Glass Science. p. 1-14 14 p., e16702.

Additive Manufacturing Gyroid Structures Used as Crash Energy Management

Rostro-González, H., Reyes Pozo, G., Puigoriol-Forcada, J. M., López-Valdés, F. J., Sundarram, S. S. & Garcia-Granada, A. A., Dec 2024, In: Computation. 12, 12, 248.

3D printed polymeric stent design: Mechanical testing and computational modeling

Canalejo-Codina, F., Cano-Morenilla, M., Martorell, J., Balcells, M., Pegueroles, M. & García-Granada, A. A., Nov 2024, In: Materials and Design. 247, 11 p., 113395.

Optimizing crash box design to meet injury criteria: a protocol for accurate simulation and material selection

Rostro-González, H., Puigoriol-Forcada, J. M., Pérez-Peña, A., Menacho, J. & Garcia-Granada, A. A., Aug 2024, In: Structural and Multidisciplinary Optimization. 67, 8, 17 p., 156.

Predictive ultrafast laser-induced formation of MoO_x using machine learning algorithms

Cano-Lara, M., Espinal-Jimenez, A., Camacho-Lopez, S., Garcia-Granada, A. A. & Rostro-Gonzalez, H., 1 Jul 2024, In: Applied Optics. 63, 19, p. 5053-5063 11 p.

A Comprehensive Exploration of Unsupervised Classification in Spike Sorting: A Case Study on Macaque Monkey and Human Pancreatic Signals

Iñiguez-Lomeli, F. J., Franco-Ortiz, E. E., Gonzalez-Acosta, A. M. S., Garcia-Granada, A. A. & Rostro-Gonzalez, H., Jun 2024, In: Algorithms. 17, 6, 25 p., 235.

High-Compression Crash Simulations and Tests of PLA Cubes Fabricated Using Additive Manufacturing FDM with a Scaling Strategy

Garcia-Granada, A. A., Mar 2024, In: Computation. 12, 3, 40.

Open material database for tensile test properties of additive manufacturing materials

Garcia-Granada, A. A., Rostro-González, H., Puigoriol-Forcada, J. M. & Reyes-Pozo, G., 21 Dec 2023, IOP Conference Series: Materials Science and Engineering, 1294, 1, p. 012043 19 p.

Numerical and experimental study to predict the forming process conditions of non-axisymmetric glass perfume bottles

Biosca, A., Borrós, S., Clemente, V. P., Hyre, M. R. & Granada, A. G., May 2023, In: International Journal of Advanced Manufacturing Technology. 126, 1-2, p. 735-748 14 p.

A simulation tool for perfume and cosmetics glass manufacturing

Biosca, A., Fibla, O., Pedret, V. & Granada, A. A. G., Feb 2023, In: Glass International. 46, 2, p. 13-14 2 p.

Study of the Sloshing Dynamics in Partially Filled Rectangular Tanks with Submerged Baffles Using VOF and LES Turbulence Methods for Different Impact Angles

Vallés Rebollo, X., Sadeghi, E., Kusano, I. & García-Granada, A. A., Dec 2022, In: Computation. 10, 12, 225.

Femtosecond laser texturization on coated steel

Baldi-Boleda, T., Colominas, C. & García-Granada, A., Oct 2022, In: Coatings. 12, 10, 1602.

Fracture assessment of polycarbonate parts produced by fused deposition modeling in the out-of-plane printing direction - effect of raster angle

Sedighi, I., Ayatollahi, M. R., Bahrami, B., Pérez-Martínez, M. A. & Garcia-Granada, A. A., 26 Jan 2022, In: Rapid Prototyping Journal. 28, 2, p. 226-235 10 p.

Spatial Control of Neuronal Adhesion on Diamond-Like Carbon

Dugan, J. M., Colominas, C., Garcia-Granada, A. A. & Claeysens, F., 22 Nov 2021, In: Frontiers in Materials. 8, 13 p., 756055.

Simulation approach for hydrophobicity replication via injection molding

Baldi-boleda, T., Sadeghi, E., Colominas, C. & García-granada, A., Jul 2021, In: Polymers. 13, 13, 12 p., 2069.

Replication of nanoscale surface gratings via injection molding (vol 3, pg 37, 2019)

Muntada-Lopez, O., Pina-Estany, J., Colominas, C., Fraxedas, J., Perez-Murano, F. & Garcia-Granada, A., Apr 2021, In: Micro and Nano Engineering. 10, 1 p., 100081.

Design and Evaluation of an Osteogenesis-on-a-Chip Microfluidic Device Incorporating 3D Cell Culture

Bahmaee, H., Owen, R., Boyle, L., Perrault, C. M., Garcia-Granada, A. A., Reilly, G. C. & Claeysens, F., 8 Sept 2020, In: Frontiers in Bioengineering and Biotechnology. 8, 557111.

The effect of in-plane layer orientation on mixed-mode I-II fracture behavior of 3D-printed poly-carbonate specimens

Bahrami, B., Ayatollahi, M. R., Sedighi, I., Pérez, M. A. & Garcia-Granada, A. A., 15 May 2020, In: Engineering Fracture Mechanics. 231, 13 p., 107018.

Time-dependent mechanical properties in polyetherimide 3D-printed parts are dictated by isotropic performance being accurately predicted by the generalized time hardening model

Salazar-Martín, A. G., García-Granada, A. A., Reyes, G., Gomez-Gras, G. & Puigoriol-Forcada, J. M., 1 Mar 2020, In: Polymers. 12, 3, p. 1-16 16 p., 678.

Mechanical behavior of an additively manufactured poly-carbonate specimen: tensile, flexural and mode I fracture properties

Sedighi, I., Ayatollahi, M. R., Bahrami, B., Pérez-Martínez, M. A. & Garcia-Granada, A. A., 25 Feb 2020, In: Rapid Prototyping Journal. 26, 2, p. 267-277 11 p.

Topology optimization through stiffness/weight ratio analysis for a three-point bending test of additive manufactured parts

García-Granada, A. A., Catafal-Pedragosa, J. & Lemu, H. G., 26 Nov 2019, In: IOP Conference Series: Materials Science and Engineering. 700, 1, 012012.

Numerical and experimental study of blow and blow for perfume bottles to predict glass thickness and blank mold influence

Biosca, A., Borrós, S., Pedret Clemente, V., Hyre, M. R. & García Granada, A. A., 1 Oct 2019, In: International Journal of Applied Glass Science. 10, 4, p. 569-583 15 p.

Replication of nanoscale surface gratings via injection molding

Muntada-López, O., Pina-Estany, J., Colominas, C., Fraxedas, J., Pérez-Murano, F. & García-Granada, A., May 2019, In: Micro and Nano Engineering. 3, p. 37-43 7 p.

Multi Jet Fusion PA12 manufacturing parameters for watertightness, strength and tolerances

Morales-Planas, S., Minguella-Canela, J., Lluma-Fuentes, J., Travieso-Rodríguez, J. A. & García-Granada, A. A., 18 Aug 2018, In: Materials. 11, 8, 1472.

Injection moulding of plastic parts with laser textured surfaces with optical applications

Pina-Estany, J., García-Granada, A. A. & Corull-Massana, E., May 2018, In: Optical Materials. 79, p. 372-380 9 p.

Glass gob modeling and experimental validation using a drop test

Biosca, A., Borrós, S., Clemente, V. P. & Granada, A. A. G., 23 Apr 2018, In: MATEC Web of Conferences. 167, 6 p., 02009.

Arterial pulse attenuation prediction using the decaying rate of a pressure wave in a viscoelastic material model

Menacho, J., Rotllant, L., Molins, J. J., Reyes, G., García-Granada, A. A., Balcells, M. & Martorell, J., 1 Apr 2018, In: Biomechanics and Modeling in Mechanobiology. 17, 2, p. 589-603 15 p.

A study of creep in polycarbonate fused deposition modelling parts

Salazar-Martín, A. G., Pérez, M. A., García-Granada, A. A., Reyes, G. & Puigoriol-Forcada, J. M., 5 Mar 2018, In: Materials and Design. 141, p. 414-425 12 p.

Computational analysis of polymer molecular structure effect on nanocavities replication via injection moulding

Pina-Estany, J. & García-Granada, A. A., Jan 2018, In: Afinidad. 75, 581, p. 3-8 6 p.

Thermal comparison of conventional and conformal cooling channel designs for a non-constant thickness screw cap

Dimla, E., Rull-Trinidad, J., Garcia-Granada, A. A. & Reyes, G., Jan 2018, In: Journal of the Korean Society for Precision Engineering. 35, 1, p. 95-101 7 p.

Molecular dynamics simulation method applied to nanocavities replication via injection moulding

Pina-Estany, J. & García-Granada, A. A., Oct 2017, In: International Communications in Heat and Mass Transfer. 87, p. 1-5 5 p.

Ball-burnishing effect on deep residual stress on AISI 1038 and AA2017-T4

García-Granada, A. A., Gomez-Gras, G., Jerez-Mesa, R., Travieso-Rodríguez, J. A. & Reyes, G., 18 Aug 2017, In: Materials and Manufacturing Processes. 32, 11, p. 1279-1289 11 p.

A Novel Spectrum Correlation Approach for Structural Damage Detection

Pérez Martínez, M. A., Serra-López, R., Menacho, J., Garcia Granada, A. A. & Reyes Pozo, G., May 2017.

A statistical analysis of nanocavities replication applied to injection moulding

Pina-Estany, J., Colominas, C., Fraxedas, J., Llobet, J., Perez-Murano, F., Puigoriol-Forcada, J. M., Ruso, D. & Garcia-Granada, A. A., 1 Feb 2017, In: International Communications in Heat and Mass Transfer. 81, p. 131-140 10 p.

3D simulation of nanostructures replication via injection molding

Pina-Estany, J. & García-Granada, A. A., 2017, In: International Polymer Processing. 32, 4, p. 483-488 6 p.

Design of experiments methodology to improve the structural behaviour of a leg rest handle

Puigoriol-Forcada, J. M., Garcia-Granada, A.-A., Lopez-Navarro, F. & Reyes-Pozo, G., 1 Jul 2016, In: Dyna (Spain). 91, 4, p. 392-396 5 p.

A methodology for damping measurement of engineering materials: application to a structure under bending and torsion loading

Pérez-Peña, A., García-Granada, A. A., Menacho, J., Molins, J. J. & Reyes, G., Jun 2016, In: JVC/Journal of Vibration and Control. 22, 10, p. 2471-2481 11 p.

Structural analysis of an automotive interior system. Practical learning in the context of the new EHEA

Puigoriol-Forcada, J. M., García-Granada, A. A., Peña-Aguilar, M. & Reyes-Pozo, G., May 2016, In: Dyna (Spain). 91, 3, p. 272-276 5 p.

Mechanical property characterization and simulation of fused deposition modeling Polycarbonate parts

Domingo-Espin, M., Puigoriol-Forcada, J. M., Garcia-Granada, A. A., Llumà, J., Borros, S. & Reyes, G., 15 Oct 2015, In: Materials and Design. 83, p. 670-677 8 p.

Heart beat pulse damping for medical materials

Aparicio Corbella, J., Martorell López, J., Reyes Pozo, G., Balcells Camps, M., Garcia Granada, A. A. & Menacho, J., 2015, (Submitted).

Influence of Building Parameters on the Dynamic Mechanical Properties of Polycarbonate Fused Deposition Modeling Parts

Domingo-Espin, M., Borros, S., Agullo, N., Garcia-Granada, A. A. & Reyes, G., 1 Jun 2014, In: 3D Printing and Additive Manufacturing. 1, 2, p. 70-77 8 p.

What can we learn from endovascular devices prior to implantation?

Martorell López, J., Santomá, P., Molins Vara, J. J., Garcia Granada, A. A., Balcells Camps, M. & Edelman, E. R., Apr 2013, TECNICAS ENDOVASCULARES, XVI, 1, p. 125-128 3 p.

A study about the protection of an array of solar panels from the wind load action

Menacho, J. & García-Granada, A. A., 2013, *Proceedings of the World Congress on Engineering 2013, WCE 2013*. p. 1938-1940 3 p. (Lecture Notes in Engineering and Computer Science; vol. 3 LNECS).

Development of light semi-rigid packaging

Bertomeu, M., Reyes Pozo, G., Garcia Granada, A. A. & López Navarro, F., 2013, Barcelona, ES: Podium Ediciones, p. 50-53, 3 p.

Engineered arterial models to correlate blood flow to tissue biological response

Martorell, J., Santomá, P., Molins, J. J., García-Granada, A. A., Bea, J. A., Edelman, E. R. & Balcells, M., Apr 2012, In: Annals of the New York Academy of Sciences. 1254, 1, p. 51-56 6 p.

Biophysical property assesment of new endovascular devices in artificial vessel

Martorell López, J., Molins Vara, J. J., Garcia Granada, A. A., Palmés, E., Bea, J. A. & Edelman, E. R., Apr 2011, In: TECNICAS ENDOVASCULARES. 14, 1, p. 3614-3617 3 p.

La Escuela Universitaria de Ingeniería Técnica Industrial de Barcelona confía en SolidWorks desde 1997
García Granada, A. A., Brigos, M., Gomez, S., Sola, P., Codina, E., Alpiste, F., Torner, J., Farrerons Vidal, O., Ibañez, P. & Valverde, J., Dec 2010, AutoCAD Magazine, 124, p. 14-16 2 p.

La Universidad IQS apuesta por el software de diseño industrial SolidWorks

García Granada, A. A., Sánchez, E. & Torres, O., Nov 2008, AutoCAD Magazine, 117, p. 72-73 1 p.

Prediction of the growth rate for fatigue cracks emanating from cold expanded holes

Lacarc, V. D., García-Granada, A. A., Smith, D. J. & Pavier, M. J., Jun 2004, In: International Journal of Fatigue. 26, 6, p. 585-595 11 p.

A new procedure based on Sachs' boring for measuring non-axisymmetric residual stresses: Experimental application

García-Granada, A. A., Lacarc, V. D., Smith, D. J. & Pavier, M. J., Dec 2001, In: International Journal of Mechanical Sciences. 43, 12, p. 2753-2768 16 p.

Creep relaxation of residual stresses around cold expanded holes

García-Granada, A. A., Lacarc, V. D., Holdway, P., Smith, D. J. & Pavier, M. J., Jan 2001, In: Journal of Engineering Materials and Technology. 123, 1, p. 125-131 7 p.

New procedure based on Sachs' boring for measuring non-axisymmetric residual stresses

García-Granada, A. A., Smith, D. J. & Pavier, M. J., Jun 2000, In: International Journal of Mechanical Sciences. 42, 6, p. 1027-1047 21 p.

Analysis for determining non-axisymmetric residual stresses

García-Granada, A. A., Smith, D. J. & Pavier, M. J., 2000, In: Materials Science Forum. 347, p. 119-124 6 p.

Experimental measurements of non-axisymmetric residual stresses

Lacarc, V., García-Granada, A. A., Smith, D. J. & Pavier, M. J., 2000, In: Materials Science Forum. 347, p. 125-130 6 p.

Activities

International Symposium on Green Manufacturing and Applications

García Granada, A. A. (Author)

2017 → ...

PRN 2017

García Granada, A. A. (Author)

2017 → ...

PRN 2016

García Granada, A. A. (Author)

2016 → ...

Pumps, disk breaks and heat exchange and fracture of Volvo Ocean Race optimised with SolidWorks simulation

García Granada, A. A. (Invited speaker)

2016 → ...

Solar panels, bioreactors and CO2 converters optimised with Flow simulation

García Granada, A. A. (Invited speaker)

2016 → ...

Heart beat pulse damping for medical materials

Aparicio Corbella, J. (Speaker), Martorell López, J. (Speaker), Reyes Pozo, G. (Speaker), Balcells Camps, M. (Speaker), Garcia Granada, A. A. (Author) & Menacho, J. (Speaker)
Jun 2015

CVB 2015

Garcia Granada, A. A. (Author)
2015 → ...

EuroNanoForum 2015

Garcia Granada, A. A. (Author)
2015 → ...

MNC 2015 - <http://www.micronanoconference.org/>

Garcia Granada, A. A. (Author)
2015 → ...

PRNM 2015

Garcia Granada, A. A. (Author)
2015 → ...

Automated in-line Metrology for Nanoscale Production – aim4np.

Garcia Granada, A. A. (Author)
2014 → ...

Automated in-line Metrology for Nanoscale Production – aim4np.

Garcia Granada, A. A. (Author)
2014 → ...

Disrupted wall shear stress alters autocrine signaling of brain microvascular endothelial cells at Blood-Brain Barrier

Garcia Granada, A. A. (Author)
2014 → ...

A study about the protection of an array of solar panels from the wind load action.

Menacho Solà-morales, J. (Speaker) & Garcia Granada, A. A. (Author)
3 Jul 2013 → 5 Jul 2013

Int. Conference on Plasticity

Garcia Granada, A. A. (Author)
2003 → ...

Salón Motorpro. Jornada Plásticos y seguridad en el automóvil organizada por STA. Fira Gran Via M2, 9-12/05/2002

Garcia Granada, A. A. (Author)
2002 → ...

International Conference of Fracture

Garcia Granada, A. A. (Author)
2001 → ...

6th International Conference on Residual Stresses

Garcia Granada, A. A. (Author)
2000 → ...

International Conf. on Computer Methods and Experimental Measurements for Surface Treatment Effects

Garcia Granada, A. A. (Author)

1999 → ...

11th Int. Conference on Experimental Mechanics

Garcia Granada, A. A. (Author)

1998 → ...

Prizes

Awards

AUXSTENT: Stents with combined properties of radial and longitudinal growth for pediatric aortic coarctation

Garcia Granada, A. A. (PI)

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): €20,000.00

1/02/24 → 31/07/24

Projects

AIM4NP: Automated In-line Metrology for Nanoscale Production

Garcia Granada, A. A. (PI) & Colominas, C. (PI)

European Commission

1/03/13 → 31/08/16

BioCrash: BioCrash

Garcia Granada, A. A. (PI), Lopez Valdés, F. J. (PI) & Puigoriol Forcada, J. M. (PI)

1/06/23 → 31/05/24

Bioinspired Engineering Designs for Advanced Lightweight Structures - BEDALS

Pérez-Martínez, M. A. (PI), Reyes Pozo, G. (Research), Garcia Granada, A. A. (Research), Menacho, J. (Research),

Gómez Gras, G. (Research) & Puigoriol Forcada, J. M. (Research)

Universitat Ramon Llull

1/01/17 → 31/12/17

PolyCoarct: Design, manufacture, and characterization of auxetic stents capable of growing with the patient. In vitro and in vivo characterization of stents in coarctate pediatric aortas.

Martorell López, J. (PI), Balcells Camps, M. (PI), Molins Vara, J. J. (Research) & Garcia Granada, A. A. (Research)

Agencia Estatal de Investigación

1/09/22 → 31/08/25

EQUIDENTAL: Development of advanced surface treatment equipment for functional enhancement of dental implant components.

Abad Roldán, M. D. (PI) & Garcia Granada, A. A. (Research)

1/10/23 → 1/10/26

¿Es el estado funcional de las células endoteliales microvasculares susceptible a alteraciones del flujo? - Implicaciones en patologías cerebrovasculares.

Balcells Camps, M. (PI), Garcia Granada, A. A. (Research), Molins Vara, J. J. (Research), Martorell López, J. (Research),

Menacho, J. (Research) & Reyes Pozo, G. (Research)

MINECO. Ministerio de Economía y Competitividad

1/01/14 → 31/12/17

Estudio en biorreactor de los fenómenos físicos y de las respuestas biológicas asociadas a la implantación de stents en entornos vasculares complejos.

Balcells Camps, M. (PI), Garcia Granada, A. A. (Research) & Molins Vara, J. J. (Research)

Ministerio de Ciencia e Innovación

1/01/10 → 31/12/12

Evaluation of Aortyx AX-GEN01 endovascular bioresorbable patch for treatment of acute and subacute Type B aortic dissection

Martorell López, J. (PI), Balcells Camps, M. (Research), Garcia Granada, A. A. (Research), Onetti Vilalta, Y. (Research) & Garcia de los Herreros, A. (Research)

Fundació La Marató de TV3

11/03/24 → 10/03/27

GEPI: Grup d'Enginyeria de Productes Industrials

Reyes Pozo, G. (PI), Garcia Granada, A. A. (Research), Llaverias Baqués, N. (Research), Menacho, J. (Research), Puigoriol Forcada, J. M. (Research), Pérez-Martínez, M. A. (Research), Espasa Sempere, M. L. (Research), Peña Aguilar, M. (Research), Domingo Espín, M. (Research), López Navarro, F. (Research), Lebrato González, A. (Research), Pina Estany, J. (Research) & Biosca i Mecías, A. (Research)

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

1/01/14 → 30/04/17

GEPI: Grup d'Enginyeria de Productes Industrials

Reyes Pozo, G. (PI), Garcia Granada, A. A. (Research), Gómez Gras, G. (Research), Llaverias Baqués, N. (Research), Menacho, J. (Research), Palacín Farré, P. (Research), Puigoriol Forcada, J. M. (Research), Pérez-Martínez, M. A. (Research), Espasa Sempere, M. L. (Research), López Navarro, F. (Research), Yagüe Yagüe, S. J. (Research), Peña Aguilar, M. (Research), Gallemí Rovira, O. (Research), Kusano, I. (Research), KUCUK, H. (Research), Biosca i Mecías, A. (Research) & Rolán, A. (Research)

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

1/01/17 → 31/12/21

GEPI: Grup Enginyeria de Productes Industrials

Garcia Granada, A. A. (PI), Espasa Sempere, M. L. (Research), Kusano, I. (Research), Llaverias Baqués, N. (Research), Menacho, J. (Research), Palacín Farré, P. (Research), Peña Aguilar, M. (Research), Puigoriol Forcada, J. M. (Research), Reyes Pozo, G. (Research), Yagüe Yagüe, S. J. (Research) & Rostro González, H. (Research)

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

1/01/22 → 30/06/25

3DPC: New Developments in Lightweight Composite Sandwich Panels with 3D Printed Cores.

Pérez-Martínez, M. A. (PI), Abad Roldán, M. D. (Research), Garcia Granada, A. A. (Research), Gómez Gras, G. (Research), Menacho, J. (Research) & Reyes Pozo, G. (Research)

Agencia Estatal de Investigación

1/01/19 → 31/07/22

VASCRAFT: New human decellularized and re-endothelialized tissue-engineered VASCular gRAFT for artery bypass grafting.

Martorell López, J. (PI), Balcells Camps, M. (Research) & Garcia Granada, A. A. (Research)

Agencia Estatal de Investigación

1/07/22 → 30/06/25

Optimisation of FDM parameters for biomechanical applications

Gómez Gras, G. (PI), Garcia Granada, A. A. (Research) & Reyes Pozo, G. (Research)

1/01/19 → 31/12/19

PLASTFUN: Planta Piloto de Piezas Plásticas con Superficies Funcionales Avanzadas

Garcia Granada, A. A. (PI)

Generalitat de Catalunya

1/02/18 → 31/01/21

Solución tecnológica de cama de polvo en SLS

Reyes Pozo, G. (PI), López García, A. (PI), Achiaga Menor, B. (Research), Martínez de Arenaza, I. (Research), Garcia Granada, A. A. (Research), Gómez Gras, G. (Research) & López Martínez, M. A. (Research)

1/05/21 → 30/04/22

AUXSTENT: Stents with combined properties of radial and longitudinal growth for pediatric aortic coarctati

Garcia Granada, A. A. (PI)
Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)
1/02/24 → 31/07/24

Courses

Postgrau CARMAT, 40 hores lectives

Garcia Granada, A. A.
1/10/12 → 30/06/13

Postgrau Elements Finitis per Enginyeria 40 hores lectives

Garcia Granada, A. A.
1/10/10 → 30/06/11

Postgrau Packaging, 20 hores lectives (participació en quarta edició)

Garcia Granada, A. A.
1/10/12 → 30/06/16

Student theses

The Influence of Combined Thermal and Mechanical Loading on Fatigue Improvement Methods and Advanced SST Light Alloys

Garcia Granada, A. A. (Author), 2000

Deep Hole Drilling as a Method to Measure Residual Stresses in Welded Components

Garcia Granada, A. A. (Author), 1996

Andrés-Amador García Granada.

Degree in Industrial Engineer (1995, ETSEIB-UPC Barcelona) specialised in Structural Mechanics.

Ph.D. in mechanical Engineering (2000, U.of Bristol UK) entitled "The effect of creep and mechanical load on cold expanded fastener holes" where Fatigue Life Improvement by Residual Stress was examined for Supersonic Airplanes with High Temperature. This High Temperature might release Compressive Residual Stress benefit by Creep Stress Relaxation. Along the thesis, a new method to measure non-axisymmetric residual stress named Garcia-Sachs, was created.

Engineering experience in simulation for engineering consultancy EDAG 2000-2001, car manufacturers SEAT 2001-2005, and AUDI 2005-2007. Responsible for head impact crash simulations and material database for implicit and explicit simulations. Lecturer of Computer Aided Engineering Design, Industrial Drawing, Mechanics, Machine Element Calculation, Advance Machine Technology and Crash Management since 2007 at IQS-URL Barcelona. Promoted from lecturer "Asociado" to Associate professor "Titular" 14.12.2010 and Professor "Catedrático" 25.04.2017.

Master industrial Engineering coordinator 1.9.2019-31.8.2021

Head of Department Industrial Engineering 10.10.2018-current

Head of research group on Product Engineering Development 10.10.2021-current.

Erasmus lecturer exchange at Fachhochschule Regensburg Germany summer 2008 and Ingolstadt 2017. Visiting professor at Pol.Monterrey in Mexico 2018. Research visitor at Kroto research Institute summer 2013, at Harvard-MIT medical school summer 2014 and UNWSP summer 2017.

Research area focused on computer aided engineering for design, simulation and fabrication. Project supervisor in Brussels since 2014.

More information on web <http://meaagg.com/Research.html> and google scholar profile

<https://scholar.google.es/citations?user=mRiLL8oAAAAJ&hl=en> with h-index 17 (October 2024)