UNIVERSITÀ DEGLI STUDI DI MILANO

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO   **ID CODE 6071**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di (Scientific Area) Economics and Statistics**

Scientist- in – charge: Dr Chiara Tommassi

Sergio Pozuelo-Campos

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Pozuelo-Campos
Name	Sergio

PRESENT OCCUPATION

Appointment	Structure
PhD researcher	University of Castilla-La Mancha

EDUCATION AND TRAINING

Degree	**Course of studies**	**University**	**year of achievement of the degree**
Degree	Mathematics	University of Granada	2015
PhD	Physics and Mathematics	University of Castilla-La Mancha	2022
Master	Physics and Mathematics	University of Castilla-La Mancha	2018

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
English	B1
Spanish	Native

TRAINING OR RESEARCH ACTIVITY

The candidate's main research deals with Optimal Design of Experiments.

During the development of his doctoral thesis, he has studied the importance of the probability distribution of the response variable in the optimal design, obtaining both theoretical results and results applied to real models. The results has been published in three research papers, all of them in journal of high impact.

Currently, in addition to the aforementioned line of research, optimal design of experiments studies are being carried out to discriminate between regression models with random effects. Furtheremore, the candidate is researching about advanced materials, appliying the knowledge of optimal experimental design to the chemical engineering.

Finally, it is worth highlighting the candidate's solid training in optimal design of experiments, as well as at the programming level with specific software such as Mathematica or R.

PROJECT ACTIVITY

Year	Project
2022-2025	1. Programa de materiales avanzados, incluido dentro de la implementación de los Planes complementarios del Ministerio de Ciencia e Innovación (Government of Castilla-La Mancha, Spain)
2022-2025	2. Estrategias de planificación óptima de procesos industriales. Agroalimentarios, de salud y calidad de vida (Government of Castilla-La Mancha, Spain)
2021-2025	3. Diseños Experimentales en Investigación Industrial, Salud y tratamiento de grandes cantidades de datos. (Government of Spain)
2023-2025	4. Consolidado - Diseño óptimo de experimentos (University of Castilla-La Mancha, Spain)
2021-2022	5. Consolidado - Diseño óptimo de experimentos (University of Castilla-La Mancha, Spain)
2020-2021	6. Consolidado – Diseño óptimo de experimentos (University of Castilla-La Mancha, Spain)
2018-2021	7. Diseño óptimo de experimentos aplicado a la industria alimentaria, farmacéutica y metalmecánica(Government of Castilla-La Mancha, Spain)
2016-2020	8. Diseño óptimo de experimentos aplicado a la salud y a la investigación en seguridad (Government of Spain)

CONGRESSES AND SEMINARS

Date	Title	Place
09/ 2023	Designing to discriminate between two random effect models.	SEIO2023, Elche, Spain
06/ 2023	Optimal designs for detecting and characterizing hormesis in toxicological tests	VI JEDE, University of Navarra, Spain
04/2023	Optimal designs fot detecting and characterizing hormesis in toxicological tests	ICODOE2023 University of Memphis, USA
12/2022	Optimal designs for detecting and characterizing hormesis in toxicological tests	ERCIM2022, London, United Kingdom
06/2022	Strategies to obtain robust designs in toxicological tests	XVI Young Science Symposium, Ciudad Real, Spain
06/2022	Strategies to obtain robust designs for toxicological tests	SEIO2022, Granada, Spain
01/2022	Robust designs for toxicological test	Biannual congress of Royal Society of Mathematics in Spain, Ciudad Real, Spain
12/2021	Robust designs for toxicological test	ERCIM2022, London, United Kingdom
10/2021	Strategies to obtain robust designs in toxicological tests	JEDEV, Almería, Spain
10/2021	Robust designs for toxicological test	DAE2021, University of Connecticut, USA
10/2021	Robust designs for toxicological test	International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, USA
07/2021	Optimum experimental design: "Think before you act"	XV Young Science Symposium, Ciudad Real, Spain
06/2021	A comparison od strategies for OED under different probability distributions	OED Seminar, Ciudad Real, Spain

05/2021	Robust strategies to address the uncertainty of the response variable in Optimal Experimental Design	ENBIS2021 Online, international
01/2021	Robust designs for the problem of uncertainty in probability distribution	Biometry Spanish Society, Online.
01/2021	Effect of misspecification in probability distribution of the response variable in optimal experimental design	I virtual meeting of OED, Online.
12/2020	Optimal compound designs for the problem of uncertainty in probability	ERCIM2020
11/2019	Effect on the optimal design of the probability distribution	Jornadas doctorales UCLM, Ciudad Real, Spain
10/2019	A comparative study of the probability distribution in optimal design	DAE2019, Knoxville, USA
09/2019	Efficiency analysis for the misspecification problem of response probability distribution in optimal experimental design	Biometry Spanish Society, Albacete, España
09/2019	Efficiency analysis for the misspecification of response probability in optimal experimental designs	10th International Workshop on Simulation and Statistics
09/2019	Influence of the probability distribution of the response variable on optimal design	SEIO2019 Alcoy, Spain
06/2019	Efficiency analysis for the misspecification problem of response probability distribution in optimal design	12th mODa workshop, Smolenice, Eslovaquia
04/2019	Efficiency analysis in optimum experimental design with misspecification of response probability distribution	8th ICRA, Viena, Austria
01/2019	D-optimal designs for any probability distribution of the response	4th general meeting BIOSTATNET, Santiago de Compostela, Spain
10/2018	Diseño óptimo de experimentos ante errores de especificación de la distribución de probabilidad en la variable respuesta	Jornadas doctorales UCLM, Cuenca, Spain
09/2018	Optimal Experimental designs for any probability distribution and analysis of its influence	Statistical Woche, Linz, Austria
05/2018	Optimal experimental designs for non-normal responses	SEIO2018, Oviedo, Spain
10/2017	Optimal experimental design for different probability distributions	OED Seminar, Toledo, Spain
07/2017	Optimal experimental design for responses with different probability distributions	JEDEIV, Salamanca, Spain

PUBLICATIONS

Articles in reviews
[1st author of 3] Optimal designs for detecting and characterizing hormesis in toxicological tests. *Chemometrics and intelligent Laboratory Systems*, 235, pp. 104753. Elsevier, **2023** https://doi.org/10.1016/j.chemolab.2023.104753
[2nd author of 4] Face-to-face or online learning in applied statistics in Health Sciences? Failed experiment or opportunity after COVID-19? *Education Sciences*, 12, pp. 922. MDPI **2023**
[1st author of 3] Strategies for robust designs in toxicological tests. *Chemometrics and intelligent Laboratory Systems*, 9, pp. 104560. Elsevier, **2022**
[1st author of 3] Effect of probability distribution of the response variable in optimal experimental design with applications in medicine. *Mathematics*, 9, pp. 1010. MDPI **2021**

Congress proceedings
[2nd author of 3] Comparisons of experimental designs for normal and gamma distributions. *Proceedings of the 35th International Workshop on Statistical Modelling*. Editorial services of University of País Vasco. **2020.**

OTHER INFORMATION

Statal Fellowship of Spanish Government (2018-2022)
Two research collaboration fellowships of University of Castilla-La Mancha

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Ciudad Real, Spain, 30th November 2023.