

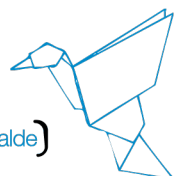
## BCAM Internship Position Announcement

The following BCAM Internship position is open at BCAM – Basque Center for Applied Mathematics, an interdisciplinary research center located in Bilbao, Basque Country – Spain. The interested applicants can apply via the following webpage: <http://www.bcamath.org/en/research/internships>. It is strongly recommended to apply at least 3 months before the expected starting date.

INTERNSHIP DATA	
<b>Research topic title:</b>	Minimax supervised classification
<b>Research topic description:</b>	Supervised classification can be approached as a zero-sum game between learner and nature. Efficient algorithms can be enabled by using uncertainty sets of distributions defined by a generating function. This project will develop techniques that utilize general loss functions
<b>Keywords:</b>	supervised classification, statistics, probability
<b>Required knowledge and skills:</b>	Statistics/probability, Linear algebra, optimization, Programming in Matlab or python
<b>Required language skills<sup>1</sup>:</b>	Spanish or English
<b>Duration and dates:</b>	3 months; flexible dates depending student availability
<b>Covered expenses:</b>	Accommodation (if necessary)
<b>Application deadline:</b>	1 <sup>st</sup> July 2021

SUPERVISOR DATA	
<b>Supervisor:</b>	Example: Santiago Mazuelas
<b>Research line:</b>	Example: Machine Learning
<b>Email:</b>	Example: smazuelas@bcamath.org

<sup>1</sup> Note that English is the official language at BCAM.



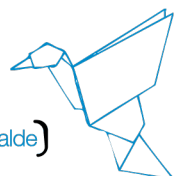
## Request for BCAM Internship: 1st Phase

This form signed by the Supervisor and by PIs of the funding projects must be handed in to the Administrative Coordinator of the BCAM Internship program well before the application deadline (it is recommended to do so at least 2 months in advance), together with the document titled “BCAM Internship Position Announcement”, which will be published on the BCAM internship webpage.

Please, note that BERC funding will be assigned to internship positions according to BCAM development priorities and additional requirements may exist.

INTERNSHIP DATA	
<b>Research topic title:</b>	Minimax supervised classification
<b>Additional research training:</b>	The applicant will learn how to develop learning algorithms for supervised classification and to compare performance of different classification algorithms
<b>Expected outcomes, deliverables and contributions:</b>	<input checked="" type="checkbox"/> Part of bachelor/master/PhD thesis of the Applicant AND the Supervisor WILL BE a formal (co-)advisor
	<input type="checkbox"/> Part of bachelor/master/PhD thesis of the Applicant BUT the Supervisor WILL NOT BE a formal (co-)advisor
	<input type="checkbox"/> Video
	<input checked="" type="checkbox"/> Code / Software
	<input type="checkbox"/> Contribution to computational wiki
	<input type="checkbox"/> Patent application
	<input checked="" type="checkbox"/> Short paper (e.g. conference proceedings, book of abstracts)
	<input checked="" type="checkbox"/> Long paper (e.g. journal, competitive conference)
<input type="checkbox"/> Other (specify)	

SUPERVISOR DATA	
<b>Supervisor:</b>	Santiago Mazuelas
<b>Email:</b>	smazuelas@bcamath.org
<b>Secondary Supervisor (if needed):</b>	
<b>Email:</b>	



FUNDING DATA			
Concept	Amount	Funding source	Signature of PI
Insurance*:	~ 40€/month	RyC	
Accommodation:	To be negotiated	RyC	
Travel costs:	To be negotiated	RyC	
Monthly remuneration:	To be negotiated	RyC	

\* If the Applicant has no Social Security coverage

Date:	Example: 01/09/2012
Signature of the Supervisor:	
Signature of the Secondary Supervisor (if needed):	

