

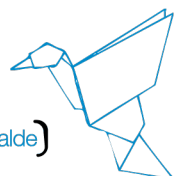
BCAM Internship Position Announcement

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 | |
|--|---|
| Research topic title: | Open supervision for machine learning |
| Research topic description: | Training data obtained in practice is often provided by a heterogeneous community that label examples with different levels of accuracy, ranging from perfect to missing annotations. This project will develop new machine learning techniques that utilize such weak and heterogeneous training data, and evaluate the performance gains with respect to existing approaches. |
| Keywords: | Matlab/python, supervised classification |
| Required knowledge and skills: | linear algebra, probability/statistics, optimization, Programming in Matlab or python |
| Required language skills¹: | Spanish or English |
| Duration and dates: | 3 months; flexible dates depending student availability |
| Covered expenses: | Accommodation (if necessary) |
| Application deadline: | 1 st July 2021 |

| SUPERVISOR DATA | |
|-----------------------|--------------------------------|
| Supervisor: | Example: Santiago Mazuelas |
| Research line: | Example: Machine Learning |
| Email: | Example: smazuelas@bcamath.org |

¹ Note that English is the official language at BCAM.



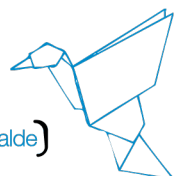
Request for BCAM Internship: 1st Phase

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 | |
|---|---|
| Research topic title: | Open supervision for machine learning |
| Additional research training: | The applicant will learn how to properly compare learning algorithms for supervised classification and to exploit available libraries of scientific computing platforms |
| Expected outcomes, deliverables and contributions: | X Part of bachelor/master/PhD thesis of the Applicant AND the Supervisor WILL BE a formal (co-)advisor |
| | Part of bachelor/master/PhD thesis of the Applicant BUT the Supervisor WILL NOT BE a formal (co-)advisor |
| | Video |
| | X Code / Software |
| | Contribution to computational wiki |
| | Patent application |
| | X Short paper (e.g. conference proceedings, book of abstracts) |
| | x Long paper (e.g. journal, competitive conference) |
| | Other (specify) |

| SUPERVISOR DATA | |
|--|-----------------------|
| Supervisor: | Santiago Mazuelas |
| Email: | smazuelas@bcamath.org |
| Secondary Supervisor (if needed): | |
| Email: | |



| 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): | |

