

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:	Sorting algorithms to sampling distributions
Research topic description:	<p>Sorting algorithms are based on querying items pairwise repeatedly. On average, the number of such queries is known to be $O(n \log n)$ for many algorithms.</p> <p>In this project we propose the use of standard sorting algorithms when the queries are probabilistic instead of deterministic. We will study their performance and sampling algorithms in two aspects: computationally and in terms of quality and likelihood.</p>
Keywords:	sorting algorithms, noisy sorting, pairwise comparisons, distributions for permutations
Required knowledge and skills:	algebra, statistics, coding
Required language skills:	English or Spanish
Duration and dates:	3 months; between April to June
Covered expenses:	To be negotiated
Application deadline:	1st March

SUPERVISOR DATA	
Supervisor:	Ekhine Irurozki
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