



Subject: Internship Proposal

<i>ID</i>	PTI_EN_Fiumara Giacomo_28/10/2025 11.14.02
<i>Data</i>	28/10/2025 11.14.02

**Project Supervisor**

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**Project Co-Supervisor**

<i>Surname</i>	
<i>Name</i>	
<i>Job Position</i>	
<i>Department</i>	



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Phone number	

### Project details

Title	AI for link prediction in multilayer networks		
<p><i>Detailed description:</i> The evaluation of AI models for link prediction in multilayer networks require testing different predictive approaches on real-world or synthetic multilayer datasets.</p> <p>The link prediction scores for node pairs obtained from these experiments need to be compared with the performance metrics such as the AUC to quantify the model's ability to distinguish true from false links.</p> <p>Results need then to be analyzed to understand how various model settings and feature choices affect accuracy and robustness. This process helps identify the best-performing methods and informs further model development and application in multilayer network analysis.</p>			
Duration (month – max 12)	12 months		
Duration (hours)	75		
Open positions	3		

### Internship Skills

<i>Technical requirements:</i> Python, fundamentals of graph theory, fundamentals of AI
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<i>Other skills</i>	