



**Milan Petrović, PhD student**  
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**Short biography:**

Milan Petrović is a third-year PhD student in Information Science at the Faculty of Informatics and Digital Technologies in Rijeka, Croatia. With interest in complex networks and deep learning on graphs, his research mainly revolves around applying these concepts to analyze social networks and study behavior within interaction networks of *Drosophila melanogaster*.

Google Scholar: [Milan Petrović - Google Scholar](#)

**Title:** *Analysis of *D. melanogaster* behavior using complex networks*

**Abstract:**

Did you know that fruit flies can even become addicted to cocaine? By studying how these tiny creatures behave when exposed to cocaine, researchers can gain a better understanding of the neurological and behavioral mechanisms underlying addiction. In this talk, we'll explore how fruit flies have been used to study cocaine addiction and the new network-based measures that have been revealed through the analysis of their social interaction networks. This data-driven approach can help us better understand the genetic and environmental factors that influence both drug addiction and social behavior.