

# Leonardo Pellegrina

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## EDUCATION

**Ph.D. student** in Information Engineering, University of Padova 2017–now  
Topic: *Efficient Algorithms for Significant Pattern Mining*. Advisor: Prof. Fabio Vandin.  
**M.S.** in Computer Engineering, University of Padova, *summa cum laude* 2017  
Thesis: *Efficient Incremental Mining of Significant Patterns*. Advisor: Prof. Fabio Vandin.  
**B.S.** in Information Engineering, University of Padova 2015  
Thesis: *Network Performance Evaluation of Fat-Tree and B-Cube Topologies*. Advisor: Prof. Leonardo Badia.

## ACADEMIC APPOINTMENTS

**Visiting Research Fellow**, Department of Computer Science, Brown University 01-06/2019  
**Teaching Assistant**, *Machine Learning*, Department of Information Engineering,  
University of Padova 2017-2020  
**Teaching Assistant**, *Big Data Computing*, Department of Information Engineering,  
University of Padova 2017-2019

## PUBLICATIONS

*SPuManTE: Significant Pattern Mining with Unconditional Testing*, Leonardo Pellegrina, Matteo Riondato and Fabio Vandin, Accepted to the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2019).

*Fast Approximation of Frequent  $k$ -mers and Applications to Metagenomics*, Leonardo Pellegrina, Cinzia Pizzi and Fabio Vandin, Accepted for presentation at the 23th Annual International Conference on Research in Computational Molecular Biology (RECOMB 2019).

*Efficient Mining of the Most Significant Patterns with Permutation Testing*, Leonardo Pellegrina and Fabio Vandin, Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2018).

## INVITED TALKS

*Rigorous Mining of the Most Significant Patterns*, Workshop on Foundations of Learning from Data (FouLarD), Bertinoro, Italy.09/2018

## FELLOWSHIPS AND AWARDS

**ISCB RECOMB 2019** Travel Fellowship. 02/2019  
“**Ing. Aldo Gini**” Foundation Fellowship, Padova, Italy. 11/2018  
“**Luciano Iglesias**” Foundation Fellowship, Padova, Italy. 05/2018  
“**Cariparo**” Foundation Ph.D. Fellowship, Padova, Italy. 2017-2020

## SCIENTIFIC ACTIVITIES

**Tutorials:** *Multiple Hypothesis Testing and Statistically-sound Pattern Mining*, Leonardo Pellegrina, Matteo Riondato, Fabio Vandin, 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2019).

**Conference Reviewing:** WABI 2018, RECOMB 2019, KDD 2019, PKDD 2019, CIKM 2019, ICDM 2019.