

# MSc thesis defense presentation

Αγαμέμνων Γιαννακόπουλος

## defends his MSc thesis

<b>Date:</b>	Τρτη, 28 Φεβ 2017
<b>Ώρα:</b>	16:00
<b>Location:</b>	Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, ΕΜΠ (παλαιό κτίριο), 1.1.31
<b>Thesis title:</b>	<a href="#">Learning Poisson Binomial Distributions with Differential Privacy</a>
<b>Committee:</b>	<ul style="list-style-type: none"><li>• <a href="#">Δημήτρης Φωτιάκης</a></li><li>• <a href="#">Αριστείδης Παγουρτζής</a></li><li>• <a href="#">Ευσθέθιος Ζήχος</a></li></ul>

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## Thesis abstract

This thesis tries to leverage two major research areas. The first area concerns the Distribution Learning Theory and the second the Differential Privacy. More specific, given a highly efficient algorithm which learns with  $\epsilon$ -accuracy a Poisson Binomial Distribution we try to study its Differential Privacy property. We show that the Algorithm achieves Differential Privacy under specific circumstances (regarding PBD nature). If the PBD close to a  $(n,k)$ -Binomial form the algorithm is Differential Privacy. If the PBD is close to a  $k$ -sparse form algorithm's privacy depends on PBD cardinality.

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