

---

**KIRILL KASHKAN**, University of Toronto  
*Dense Forests With Low Visibility*

A set of points  $F$  in  $\mathbb{R}^d$  is called a dense forest if there is a decreasing visibility function  $V(\varepsilon)$  such that any line segment in  $\mathbb{R}^d$  of length  $V(\varepsilon)$  has a point of  $F$  within distance  $\varepsilon$  of it and  $F$  has finite density. Since being introduced in the 2010s, many forests with desirable properties have been constructed. Those properties being: low visibility, the forest being uniformly discrete, or having a deterministic construction.

This talk will present a dense forest constructed by modifying a set of points obtained from a Poisson Process. The dense forest has visibility  $V(\varepsilon) \in O(\varepsilon^{-(d-1)} \log \varepsilon^{-1})$ .