

MS Thesis Defense

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Title: *An Application of Statistical Methods and Random Graphs on Local Heroin Markets*

Abstract

As of 2018, opioid-related deaths have become more likely than fatal car crashes nationwide. Anthropologists are turning to ethnographic surveys of users at syringe exchange points to gain insider perspective on current illegal drug trade. This novel form of data is untapped for its explanatory and predictive abilities. In this thesis we apply significance testing and Bayesian regression to understand market behaviors before representing them in a novel agent based model.