# **SEMINAR:**

### HIGHER CATEGORIES AND HOMOTOPICAL ALGEBRA USC

### **ORGANIZERS**

Aaron Andrews Juan Serratos

## **VENUE** TBD, USC.

### **HOMOTOPY THEORY**

There are many motivations to begin learning about ∞-categories, which can be viewed as a homotopy theory version of category theory. There exists many applications of ∞-categories such as in logic (e.g. homotopy type theory), derived algebraic geometry, and so on. For those interested in derived algebraic geometry, a goal of this seminar could be to learn the tools to begin reading Lurie's thesis afterwards; for those interested in algebra, learning about ∞-categories will be useful to learn about the derived settings; for those interested in (algebraic) topology, ∞-categories come from your field! A determined seminar outline has yet to be made, but updates will be available on the website:

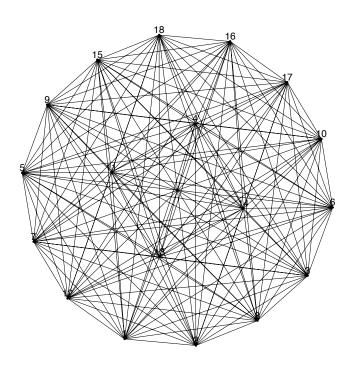
notsatos.github.io/posts/htseminar/

### **CONTACT**

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### **WEBPAGE**

NOTSATOS.GITHUB.IO/POSTS/HTSEMINAR/



**Prerequisites**. We hope to not assume the most, but the person participating will ideally have experience with category theory (and to a greater benefit homological algebra). But we do not in fact assume experience with classical homotopy theory of simplicial sets and algebraic topology.

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