# The Department of Political Science
# Research Seminar in Politics
# Is Pleased to Present

## Generative AI in Political Science: Promise and Challenges in Research and Pedagogy

**Wednesday – February 28, 3-4:30pm**
**(216 Anderson Hall)**



**Jonathan Green (Duke University)**

The capabilities and scale of generative artificial intelligence tools have rapidly expanded in recent years. These tools are proving to be extremely useful for advancing a wide range of social science research – a non-exhaustive list includes natural language processing, experimental methods, computational modeling, and public opinion research. By the same token, the real-world applicability of many of these tools poses practical challenges for traditional instruction in social science education. In this talk, I provide a broad overview of recent applications of generative AI in my home discipline, political science, examples of how I am incorporating these tools into my own research, and practical challenges the field currently faces in this area. I then discuss applications of large language models in political science instruction, highlighting their potential to be used rather than abused inside and outside of the classroom.

Jonathan Green is an assistant professor in the Department of Political Science at Duke University. His work broadly concerns the intersection of elite communication and political behavior in the United States, with work in these areas recently appearing in *Nature, Proceedings of the National Academy of Sciences,* and the *British Journal of Political Science*, among other journals. He is the co-author of *Machine Learning for Experiments in the Social Sciences*, a practical introduction to supervised machine learning for advanced undergraduates and graduate students familiar with experimental methods.

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