

# Math Camp

Justin Grimmer

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Department of Political Science  
University of Chicago

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# < Course >

# The Systematic Analysis of Politics

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This class (introduction):



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- Math Camp: Develop Tools for Analysis

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This class (introduction):

- Math Camp: Develop Tools for Analysis
- Probability theory: systematic model of randomness

# Course Goals

First stop in methodology sequence

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- 1) Mathematical tools to comprehend and use statistical methods
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**Proximate Goals**

- 1) Mathematical tools to comprehend and use statistical methods
- 2) Foundation in probability theory/analytic reasoning
- 3) Practical Computing Tools: R

# Course Staff

Me: Justin Grimmer



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# TA Info

- Joshua Mausolf  
Ryan Hughes
- We will hold twice weekly labs, that will occur in this room from 130-300pm (or so)
- Github for class: `github/justingrimmer/MathCamp`

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  - Quantitative Methodologist: Real Analysis and Grad level statistics
  - Formal Theory: Real Analysis (through measure theory), Topology

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- Learn as much material as possible
- If you truly only care about learning material, you'll get amazing grades

# Homework

Math camp: assigned daily  $\rightsquigarrow$  Mechanics of solving problems

Lab Assignment: Twice weekly assignments, help you develop computational and mathematical skills.

# Computing/Homeworks

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- **If you start using  $\text{\LaTeX}$ , you'll soon love it**

# Course Books

- 1) Simon, Carl and Blume, Lawrence (SB). Mathematics for Economists.
- 2) Bertsekas, Dimitri P. and Tsitsiklis, John (BT) Introduction to Probability Theory (second edition)