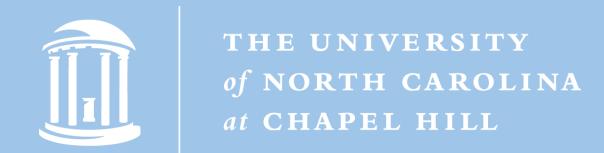
Judicious Judges?

Effects of Judicial Discretion and Crime Type on Sentencing





Introduction

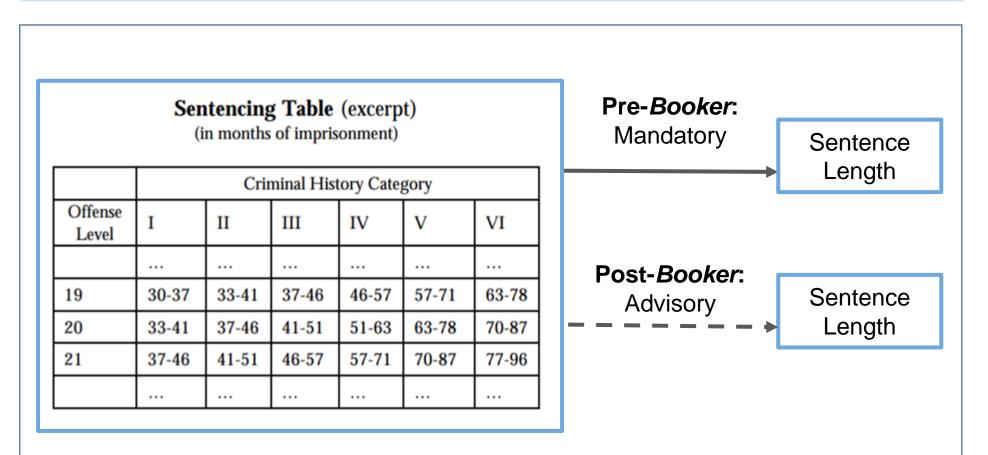
Background

- In 2005, the Supreme Court case *U.S. v. Booker* increased judicial discretion in federal sentencing¹
- Booker held that sentencing ranges² would be advisory instead of mandatory¹ (fig 1)

Literature

- Previous studies found variations in Booker's effects by defendant, circuit, and judge demographics³
- This research additionally analyzes variations in Booker's effects depending on crime type

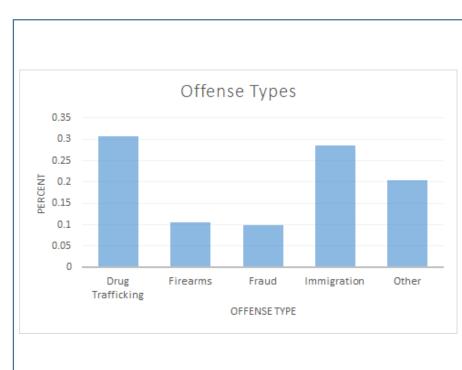
Figure 1



Methods

Data⁴

- Released Annually by the Federal **Sentencing Commission**
- Includes details for federal criminal cases
- Primary explanatory variable: crime type (Fig 2)
- Primary outcome variable: sentence length (Fig 3)
- Final sample: 974,799 cases



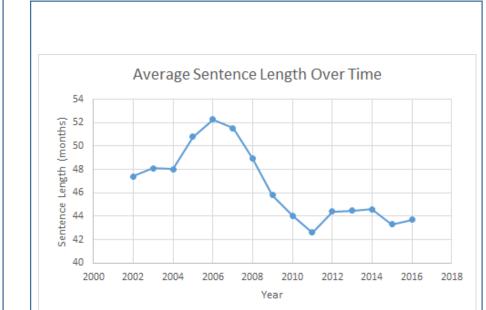


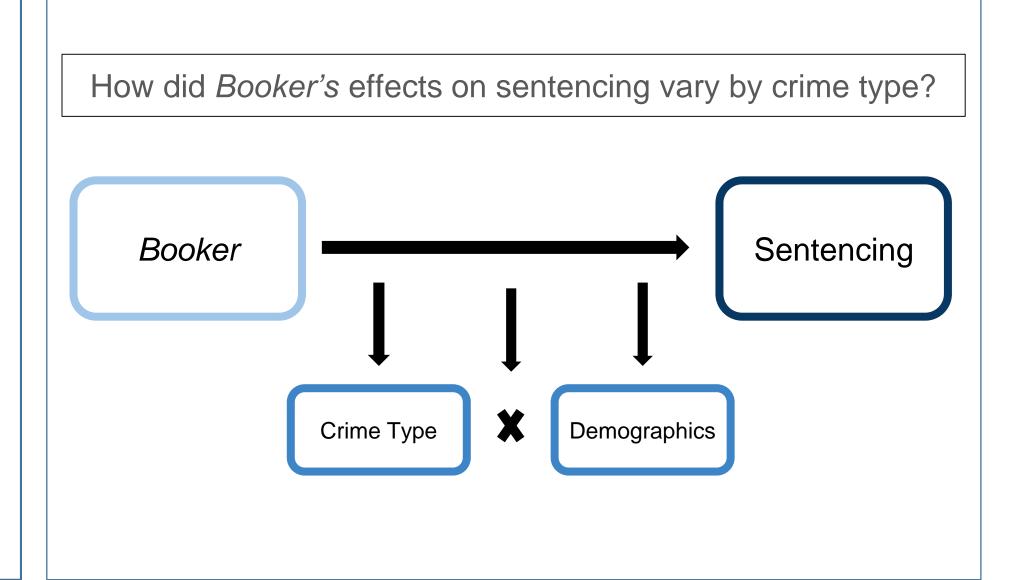
Figure 3

Model⁵ (fig 4)

- Sentence length in months regressed on
 - O Pre or post *Booker* variable
 - Year trend
 - Defendant demographics
 - o Booker X defendant demographics
 - Crime severity measures
 - o *Booker* X crime severity
 - Crime type
 - Booker X crime type for drug trafficking, firearms, fraud, and immigration
 - Circuit of sentencing fixed effects

Figure 2

Figure 4



Results

Iteration 1 (fig 5)

- Model estimated as described
- Results show variation in Booker's effects depending on crime type
- Effects in different directions, so looking at all crime types together may understate the effects

Figure 5

| | Crime Type Coefficient | Booker X Crime Type Coefficient | Marginal Effect |
|---------------------|------------------------|------------------------------------|-----------------|
| Drug Trafficking | -105.805** | -3.002** | -108.807 |
| Firearms | -87.727** | 7.793** | -79.934 |
| Fraud | -51.853** | 6.564** | -45.289 |
| Immigration | -63.115** | 1.058 | -63.115 |
| * p<0.05; ** p<0.01 | | | |

Iteration 2 (fig 6)

- Data divided into subsets corresponding to the four main crime types
- Model estimated as described for each subset
- Variation by crime type reiterated for race variables
- Supports efficacy of differentiating crime types to increase overall accuracy
- Generally adverse effects for Blacks and Hispanics, except for in fraud crimes
- Potential implicit discrimination

Figure 6

| | Race Coefficient | Booker X Race Coefficient | Marginal Effect |
|---------------------------|---------------------|---------------------------|-----------------|
| Black Drug Trafficking | 5.877** | 1.015 | 5.877 |
| Hispanic Drug Trafficking | 3.007** | 1.936** | 4.934 |
| Black Firearms | 4.239** | 1.206* | 5.445 |
| Hispanic Firearms | -0.534 | 0.115 | |
| Black Fraud | -3.497** | 0.572 | -3.497 |
| Hispanic Fraud | -3.951** | -1.366 | -3.951 |
| Black Immigration | -0.547 | 2.264** | 2.264 |
| Hispanic Immigration | 0.497 | 0.084 | |
| Black Other | 4.239** | 1.206* | 5.445 |
| Hispanic Other | -0.534 | 0.115 | |

Conclusion

Because of the variation in Booker's effects by crime type, analyzing Booker separately by crime type more accurately represents its effects

References

- 1. U.S. v. Booker 543 U.S. 220 (2005).
- 2. United States Sentencing Commission, Guidelines Manual, §3E1.1 (Nov. 2018)
- 3. Yang, C. S. (2013). Have Inter-Judge Sentencing Disparities Increase in an Advisory Guidelines Regime? Evidence from Booker. Harvard University Economics Dissertation.
- 4. United States Sentencing Commission. Monitoring of Federal Criminal Sentences, [United States], 2002-2016. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2018-05-23.
- 5. Nutting, A. W. (2013). The booker decision and discrimination in federal criminal sentences. *Economic Inquiry*, 51(1), 637–652. https://doi.org/10.1111/j.1465-7295.2011.00449.