# Behavioral responses to taxation

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# Optimal Income Tax and Elasticities

Recall the optimal income tax formula:

$$\frac{t}{1-t} = -\frac{\cos\left(\lambda, \frac{I}{I^{M}}\right)}{\frac{1}{N} \sum_{i=1}^{N} \varepsilon_{i} \cdot \frac{I_{i}}{I^{M}}}$$

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- Define (taxable) income appropriately to capture the ability to pay (accurate  $I/I^M$ )
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- Most empirical estimates of the tax elasticity of labor supply  $\varepsilon_i$  are fairly small
- What does small  $\varepsilon_i$  imply for income tax rates?
- How can people reduce their taxable income?



### Lecture Goals

- Identify the different margins of response to taxation
- Characterize the empirical methods used to estimate the behavioral responses to taxation
- Contrast and evaluate tax avoidance and tax evasion and their impact on the social cost of taxation

# Limitations of the Theory on Labor Supply

#### Theory assumes free adjustment of hours worked.

- Ambiguous effect on labor supply (income vs. substitution)
- Firms may want all workers to work the same hours
- Overtime pay makes it harder to adjust at a constant wage

#### **Intensive versus Extensive Margin Adjustments:**

- Intensive margin = hours changes for those who work
- Extensive margin = labor force participation

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#### Other Behavioral Margins of Adjustment:

- Intensity of work, occupational choice, retirement
- Short- and long-run elasticities may differ

# Summary of Evidence on Labor Supply Responses

- both margins small for men/primary earners
- large response for secondary earners ( $\varepsilon \in [0.5, 1]$ ), mostly via participation
  - ⇒ Declined as gender gaps in employment rates closed
- large responses for low-income/welfare/EITC recipients, again mostly on the participation margin

### Behavioral responses to taxation

- The cost and incidence of taxes depend on responses
- For income tax, labor supply responsiveness,  $\varepsilon_i$  matters, but need:
  - To account for income (positive) and substitution (negative) effects
  - "Exogenous" variation in tax rates
  - Assume wage elasticity of labor supply = tax elasticity of labor supply

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- Types of responses to income tax
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  - re-timing e.g., asset sales, timing of bonus payments
- Each behavior is a "costly" response to taxation
- Feldstein (1999) showed that cost of income tax depends on total taxable income, not just labor supply
- On the government side, revenue depends on taxable income only (it is t · I where I is taxable income)
- On the individual side, see next slide...



# Taxable income summarizes effect on utility

- Utility: u(C, L, E) with consumption C, leisure L, and effort  $\mathcal{E}$
- Budget constraint:

$$C = w(E)(1-L) - t \cdot \underbrace{[w(E)(1-L) - A]}_{I = \text{taxable income}} - g(A)$$

Wage rate  $w(\mathcal{E})$  depends on effort; A is avoidance — it reduces taxable income but costs g(A).

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- Effect of  $\uparrow$  t on utility:
  - Taxes higher
  - By envelope theorem,  $C'(t) = L'(t) = \mathcal{E}'(t) = A'(t) = 0$  at optimum

$$\frac{\partial}{\partial t}\Big\{u(C(t),L(t),\mathcal{E}(t))\Big\}=-u_C\cdot I$$

(substitute out *C* with budget constraint)



### Responsiveness of taxable income

- Empirical benefit: taxable income right in the tax data
- A lot of other problems though:
  - Measurement: Taxable income changes with policy
  - Variation rare: Tax structure somewhat stable
  - Reverse causality: Taxable income determines t
- Which side of the Laffer curve are we on?

$$\frac{\partial tI}{\partial t} = I + t \frac{\partial I}{\partial t} = I \left( 1 - \frac{t}{1 - t} \varepsilon \right) \stackrel{?}{>} 0 \text{ depends on } \leftrightarrow \varepsilon \stackrel{?}{>} \frac{1 - t}{t}$$

- Initial work in the 1990s (Lindsay, Feldstein): high taxable income elasticity, so "wrong side of Laffer curve"
- Newer studies find high elasticities due to re-timing in short run; longer term effects much smaller, but larger than labor supply alone



### Bunching at kink points

Assume that your marginal tax rates are 10% up to 50K, 20% up to 100K and 90% for every dollar over \$100K.

Where would you expect there to be a lot of people earning their income?

What are some reasons we might not see any bunching?

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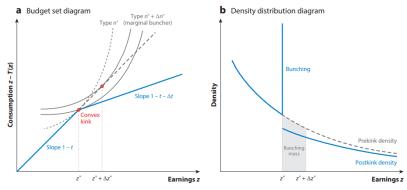
- Difficult to perfectly choose hours/earnings and earnings/hours
- Effective after-tax wage still high enough to work beyond kink point

# Empirical Estimation: Bunching at Kinks & Notches

### Kink estimation (discontinuities in marginal tax rate)

- Marginal tax rate changes create non-linear budget constraints
- A group of marginal workers optimize at the "kink," but would work more under the counterfactual linear budget constraint
- The implied reduction in taxable income by these marginal workers is used to calculate an elasticity

# Bunching at a Kink: Graph



From Kleven (2016) "Bunching" at a kink point

If kink is small, the local "compensated" tax elasticity of taxable earnings is

$$\varepsilon = -\frac{\Delta z^*/z^*}{\Delta t/(1-t)}$$

Technical note: Actual tax rate does not change, so there are no "income effects" making this the compensated elasticity (see Saez (2010) for details and exceptions)



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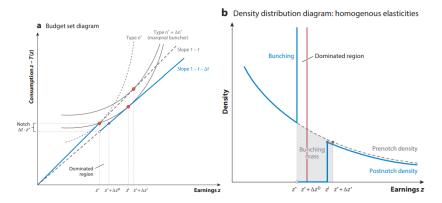
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### Notch estimation (discontinuities in average tax rate)

- Suppose the tax liability jumps at some income threshold, which creates a discontinuity in the average tax rate
- Creates region where reducing earnings raises consumption and leisure, then a region where preferences take over
- Elasticity harder to measure because level change does not map to derivative in the elasticity formula

# Bunching at a Notch: Graph



From Kleven (2016) "Bunching" at a notch points.  $\Delta z^D$  is area for which reducing earnings increases consumption and leisure.

Approximate elasticity with upper bound (see Kleven & Waseem (2013)):

$$e_R pprox rac{(\Delta z^*/z^*)^2}{\Delta t/(1-t)}$$



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Estimate a counterfactul earnings density (usually assume "smoothness" without kink/notch) to use these methods

# Limitations to bunching estimation

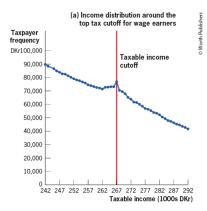
### Limitations to bunching estimation

- Requires "smoothness" in absence of the discontinuity, so discontinuities in wage settings/hours worked can create issues
- Are estimates from one part of the income distribution externally valid? Need a model to map to rest of distribution
- Highly salient tax discontinuities get bigger bunches, underinformed taxpayers may underoptimize
- It is costly to adjust earnings, so kinks/notches discontinuities with smaller changes may underestimate elasticity

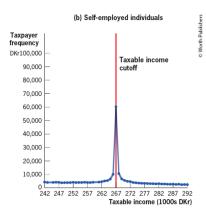
### Behavioral responses - examples

 "Bunching" of taxpayers in place where marginal tax rates change (Chetty et al, Quarterly Journal of Economics, 2011).

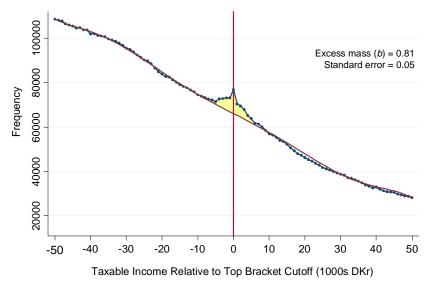
# Bunching at the cutoff



(a) Y-axis is # of individuals at each earning level



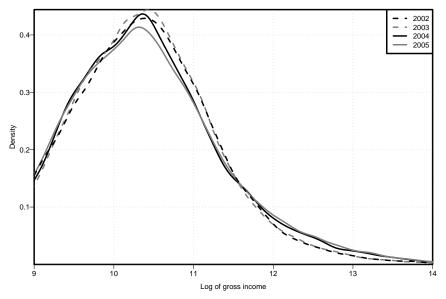
(b) Response could be changes in tax reporting



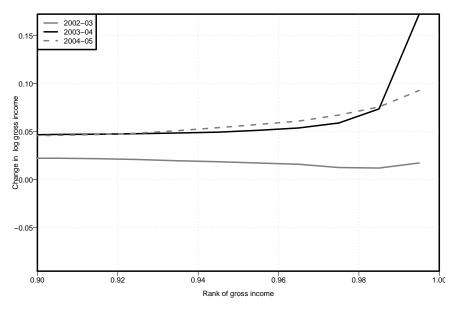
Earnings around the kink in the tax schedule — Denmark

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- Introduction of the flat tax in Poland in 2004 (Kopczuk, 2013): a tax reduction at the top of the distribution for people with business incomes – and "suddenly" the rich got richer?



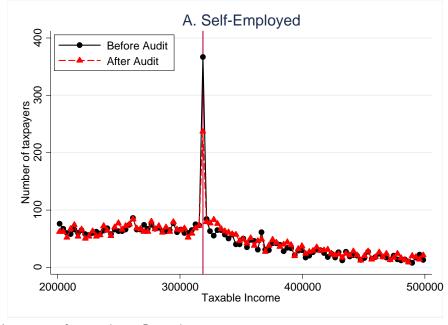
Distribution of gross income inflation/GDP adjusted (business owners)



Change in reported income 2002-05 by location in the full income distribution; tax reduction took place mostly in the top 1%

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- Importance of tax evasion (Kleven et al. "Unwilling or Unable to Cheat? Evidence from a Tax Audit Experiment in Denmark," Econometrica, 2011)



Importance of tax evasion — Denmark

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- Turns out there are a lot of holes in the tax code even more for the wealthy



### Tax gap

Tax gap: the difference between the tax that taxpayers should pay and what they actually pay on a timely basis.

The Tax Gap in 2022 (according to the IRS, numbers rarely updated): \$696B or 15% of overall tax liability.

These numbers do not account for enforcement and late payments which were estimated to reduce the gross tax gap by \$90 billion to \$606B (13.1% noncompliance)

Sources of tax gap: nonfiling, underreporting, underpayment. Underreporting accounts for 80% of the tax gap.

#### Tax evasion in the U.S.



Figure: Source: https://www.irs.gov/pub/irs-pdf/p5869.pdf

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  - But what about people who make mistakes?
- Horizontal inequity: not everybody cheats.

Assumptions: tax rate of t, probability of getting caught p, penalty of f, income of y. A risk neutral taxpayer wants to maximize

$$(1-p)\underbrace{[y-t(y-E)]}_{\text{evasion income}} + p\underbrace{[(1-t)y-fE]}_{\text{penalized income}},$$

where E is evasion.

Equivalently, the expected after-tax/penalty resources are

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Similar logic if a person is risk averse: if the evasion lottery pays on average, then cheat a little bit... (as a treat)

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### Tax evasion in the U.S.



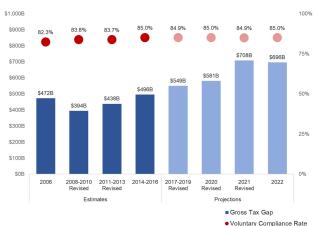


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### Tax evasion in Denmark

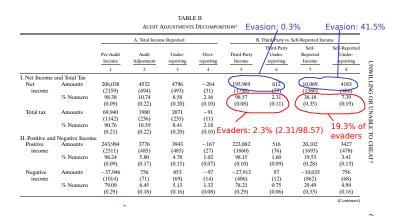


Figure: Source: Kleven et al., Econometrica, May 2011

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  - most effective ways of reducing non-compliance involve more third party reporting matched to individual reports
- Does  $\uparrow E$  attract more attention,  $\uparrow p$ : "petty" cheating underreporting by a few bucks likely undetected.
- Perception of fairness in the tax code has been suggested as an important determinant of compliance



# Tax evasion in Denmark (Kleven et al, 2011)

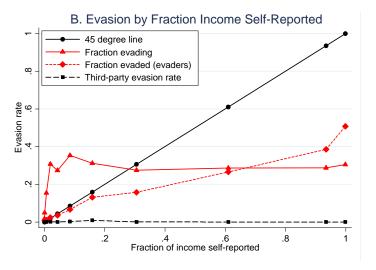


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  - Leverage network effects.
  - Improve public perception of the government and tax code.
- High detection rates don't always boost compliance; audits are often negotiations.
- Some noncompliance might be acceptable due to cost, redistributive effects, and limiting government growth.

# Complexity of the Tax Code

- Economic Costs:
  - Direct compliance: time spent on tax returns and info gathering
  - More avoidance opportunities
  - Unintentional errors: e.g., EITC claim mistakes from misinterpreting a "qualifying" child
- Policy Implications:
  - Penalties may not effectively address unintentional errors
  - Enhance compliance via education, customer service, and tax professionals
  - This approach has been the US policy for 15 years
  - Downside: Accounting firms (e.g., H&R Block, TurboTax) may exploit the system

## Special treatment and rates

- Lower rate for capital gains and dividends (0%, 15% or 20%, depending on income level)
- An additional net investment income tax (3.8%) for taxpayers above \$250,000.
- 20% of business income reported on individual income tax returns (so called "pass-through" businesses - sole proprietors, S corporations, partnerships) may be deducted for some (many...) businesses as of 2018
- Reorganizing your earnings from wages to pass-through business income can be a way to pay less tax.
- And that's before we've touched illegal ways to pay less tax!

### The Alternative Minimum Tax and Claimants

- AMT introduced in 1969
- Disallows most deductions, adds back some income
- Pay the higher of the regular or the AMT tax liability
- Basic structure:

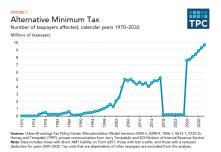


Figure: Skyrocket unlikely after One Big Beautiful Bill (Source: Tax Policy Center.)

Status	Exemption	Phase-out
Unmarried	\$88,100	\$626,350
Joint	\$137,000	\$1,252,700
Separately	\$68,650	\$626,350

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- Disparate impact of audits:
  - IRS strategies aimed to minimize non-productive audits
  - Focus on erroneously claimed EITC rates and simpler returns
  - Higher audit rates for some groups, e.g., Black taxpayers audited at 2.9 to 4.7 times rate of others (Elzayn et al. (2023))
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  - Biden EO+Inflation Reduction Act shifted focus to wealthy evaders, but DOGE/Trump cuts reduced audit capabilities



### Conclusion

- Responsiveness to taxation determines the costs associated with taxation and is key to setting optimal rates.
- Taxable income is a sufficient statistic for the cost of taxation, influenced by various margins beyond labor supply choices.
- Estimation requires (ideally exogenous) variation in rates, with non-linearities in budget constraints (kinks & notches) useful for estimating "local" tax elasticities.
- Tax evasion/fraud can exacerbate the social cost of taxation and is illegal; the government can mitigate this by increasing audit probability or penalties.
- Additional levers available to further reduce evasion.