

Intergenerational Discounting and Inequality

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November 28, 2025



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Motivation

- ▶ Policies today affect present and future generations:
 - ▶ Typically, some gain, other lose from the policy.
- ▶ Examples:
 - ▶ Mitigation of climate change;
 - ▶ Public debt reduction;
 - ▶ Research and development for technological change;
 - ▶ Pension reform.

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- ▶ What policies are better? The answers depend on two aspects of **intergenerational justice**:
 - ▶ The attitude toward earlier vs. later generations—*discounting*;
 - ▶ The attitude toward better-off vs. worse-off generations—*inequality*.

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- ▶ What policies are better? The answers depend on two aspects of **intergenerational justice**:
 - ▶ The attitude toward earlier vs. later generations—*discounting*;
 - ▶ The attitude toward better-off vs. worse-off generations—*inequality*.
- ▶ *But*: The set of attitudes we typically adopt for economic policy evaluation and analysis is quite narrow.

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Focus of the paper

- ▶ We develop a new, large family of theories of intergenerational justice.
- ▶ We show that **discounting and inequality** attitudes are generally independent of each other and **can be disentangled**.

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Focus of the paper

- ▶ We develop a new, large family of theories of intergenerational justice.
- ▶ We show that **discounting and inequality** attitudes are generally independent of each other and **can be disentangled**.
- ▶ This **orthogonality property** holds across a wide variety of cases, and provides significantly more general (tractable) criteria.

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Focus of the paper

- ▶ A feature of the most common criteria is that they rely on exponentially-discounted utilitarianism or other additively separable formulations.

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Focus of the paper

- ▶ A feature of the most common criteria is that they rely on exponentially-discounted utilitarianism or other additively separable formulations.
- ▶ The **advantage of our separation** is that we can present a wide variety of cases that go beyond exponential discounting and additive separability.
- ▶ Examples:
 - ▶ Non-constant social impatience;
 - ▶ Positional attitudes to inequality between generations.

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Our contribution

1. We develop “**modular**” theories of intergenerational justice:

- 1.1 *Module 1* exclusively deals with **discounting**;
- 1.2 *Module 2* exclusively deals with **inequality**;
- 1.3 Any theory is fully described by these two modules;
- 1.4 Many new theories emerge;
- 1.5 The most common theories fit our approach.
 - ▶ Exponentially-discounted utilitarianism as special case.

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Our contribution

1. We develop “**modular**” theories of intergenerational justice:
 - 1.1 *Module 1* exclusively deals with **discounting**;
 - 1.2 *Module 2* exclusively deals with **inequality**;
 - 1.3 Any theory is fully described by these two modules;
 - 1.4 Many new theories emerge;
 - 1.5 The most common theories fit our approach.
2. We **axiomatically characterize** the class of modular theories of intergenerational justice.

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Our contribution

- 3 We provide a **transparent framework to understand and choose from a large class of social welfare functions.**
- 4 We relate the social welfare function to measures of **(in)equality and their trade-off with efficiency** and the **generalized Ramsey rule.**
- 5 We offer **new definitions** of social impatience and inequality aversion.

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- ▶ The relationship between discounting and inequality remains understudied (Stern, 2007; Nordhaus, 2007; Dasgupta, 2008).
- ▶ The literature has focused on **discounting attitudes**:
 - ▶ Pareto efficiency implies some sort of discounting (Diamond, 1965).
- ▶ Our perspective on **inequality attitudes** is borrowed from the leaky bucket experiment popularized by Okun (1975).

Technical remarks

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Agenda

- ▶ Disentanglement;
- ▶ Characterization;
- ▶ Implications;
- ▶ Discounting and inequality;
- ▶ Conclusion.

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A consumption stream

- We study the problem of ranking bounded **consumption streams**

$$c : T \rightarrow \mathbb{R}_+$$

in infinite continuous time $T \equiv [0, \infty)$. The set of all consumption streams is C .

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A consumption stream

- ▶ We study the problem of ranking bounded **consumption streams**

$$c : T \rightarrow \mathbb{R}_+$$

in infinite continuous time $T \equiv [0, \infty)$. The set of all consumption streams is C .

- ▶ A theory of intergenerational justice is represented by a **social welfare function**

$$W : C \rightarrow \mathbb{R}.$$

We assume that the social welfare function is continuous.

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Change of perspective

- The central step of our analysis is to *transform* consumption streams in “calendar time” T to consumption streams in “equivalent time” $I \equiv [0, 1)$.

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Change of perspective

- ▶ The central step of our analysis is to *transform* consumption streams in “calendar time” T to consumption streams in “equivalent time” $I \equiv [0, 1)$.
 - ▶ The duration of each generation is *expanded/ compressed* up to the point where all consumption has the **same value**.

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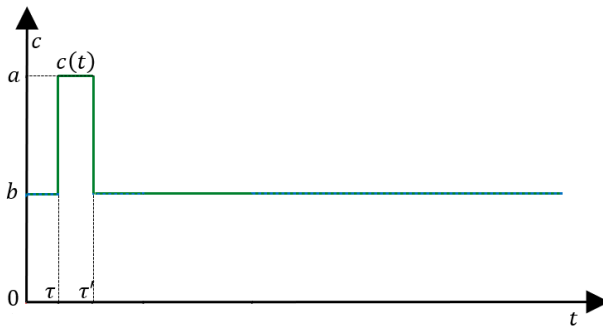
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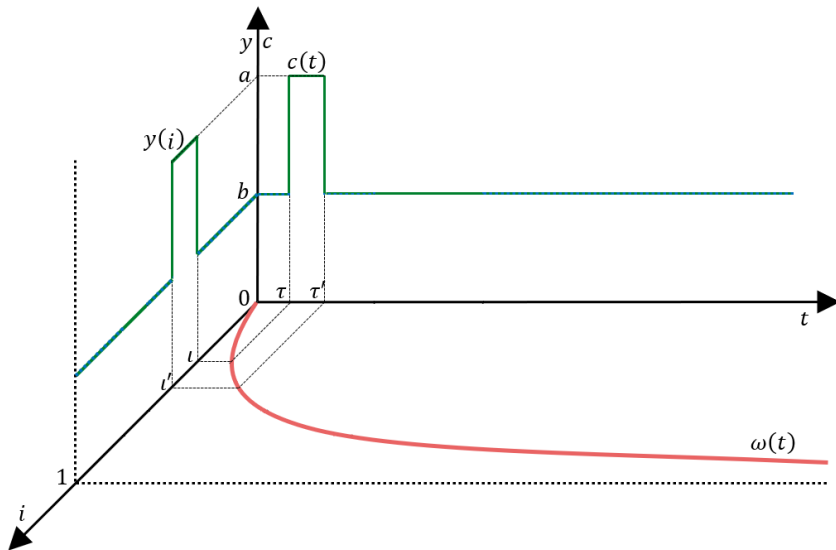
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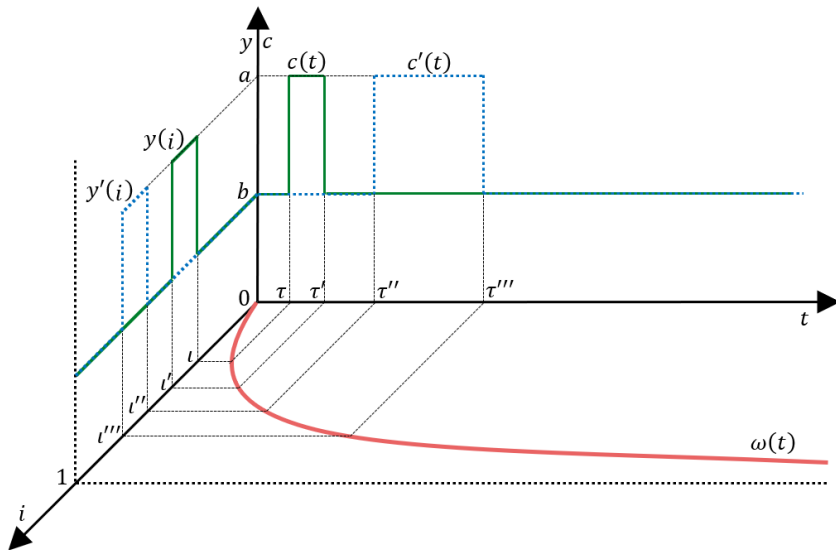
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Change of perspective

- ▶ The central step of our analysis is to *transform* consumption streams in “calendar time” T to consumption streams in “equivalent time” $I \equiv [0, 1)$.
 - ▶ The duration of each generation is *expanded/ compressed* up to the point where all consumption has the **same value**.
- ▶ *Anticipating the results:* since each instant of consumption in equivalent time has the same value, we can apply any law invariant inequality averse aggregation of consumption.

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The time-discounting function

- ▶ We say that consumption streams admit a representation in **equivalent time**, if there exists a strictly increasing function $\omega : T \rightarrow I$, such that permuting the transformed consumption is a matter of social indifference.

$$W(c) = W(c') \text{ whenever } c = y(\omega), c' = y'(\omega), y = \Pi y'.$$

- ▶ In other words, all intervals in equivalent time have the same value.

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$$W(c) = W(c') \text{ whenever } c = y(\omega), c' = y'(\omega), y = \Pi y'.$$

- ▶ In other words, all intervals in equivalent time have the same value.
- ▶ We call ω the **time-discounting function**.

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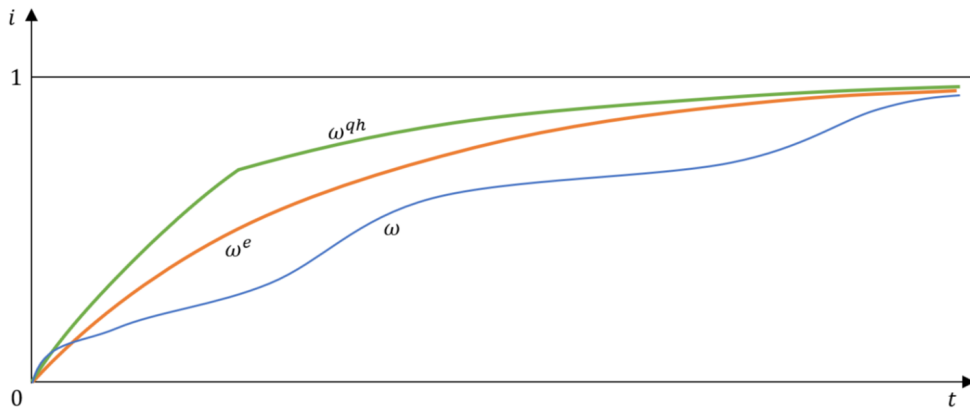
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The time-discounting function



$$\omega^e(t) = 1 - e^{-\rho t}$$

$$\omega^{qh}(t) = \begin{cases} \beta\kappa(1 - e^{-\rho t}), & \text{for } t \in [0, \tau] \\ 1 - \kappa e^{-\rho t}, & \text{for } t > \tau, \end{cases} \text{ with } \kappa = 1/(\beta + (1 - \beta)e^{-\rho\tau})$$

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The aggregator

- ▶ How to aggregate consumption streams in equivalent time?
- ▶ Given the social welfare function W and the time-discounting function ω , the **aggregator** $V : Y \rightarrow \mathbb{R}$ immediately follows by setting

$$V(y) = W(y(\omega)).$$

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- ▶ Given the social welfare function W and the time-discounting function ω , the **aggregator** $V : Y \rightarrow \mathbb{R}$ immediately follows by setting

$$V(y) = W(y(\omega)).$$

- ▶ Note that the aggregator is *law invariant* in equivalent time by definition.
- ▶ Thus, V could be any standard (atemporal) social welfare function.

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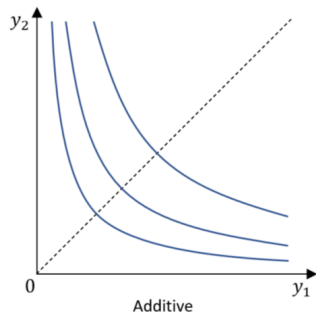
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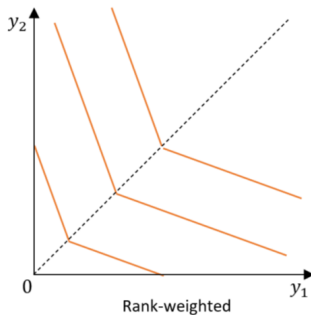
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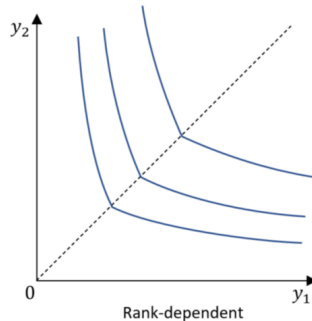
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$$V^a = \int_0^1 \frac{(y_i)^{1-\eta}}{1-\eta} di$$



$$V^{rw} = (\gamma + 1) \int_0^1 (1 - r(i))^\gamma y_i di$$



$$V^{rd} = (\gamma + 1) \int_0^1 (1 - r(i))^\gamma \frac{(y_i)^{1-\eta}}{1-\eta} di$$

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The modular social welfare function

- ▶ We say that W is **modular** if consumption streams can be represented in equivalent time and, thus, there exist an ω and V induced by W .
- ▶ Importantly, the most common welfare criteria adopted in the literature are modular.

Example formulas

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Some modular theories of intergenerational justice

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W	V	Additive V^a	Rank-weighted V^{rw}	Rank-dependent V^{rd}
ω		$\int_0^1 f(y_i) di$	$\int_0^1 g(r(i)) y_i di$	$\int_0^1 g(r(i)) f(y_i) di$
Exponential ω^e	$1 - e^{-\rho t}$	EDU	NEW	
Quasi- hyperbolic ω^{qh}	$\begin{cases} \beta k(1 - e^{-\rho t}) & t \leq \tau \\ 1 - k e^{-\rho t} & t > \tau \end{cases}$			
General ω				

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- **Proposition 1.** Assume W is modular, Paretian and scale invariant. Then, the following decomposition emerges:

$$W = \bar{y} \cdot E(y).$$

- Here, \bar{y} is the mean, $y(\omega) = c$, and E is a measure of equity (or 1 minus inequality), building on Atkinson (1970).

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Efficiency–equity representation

- ▶ **Proposition 1.** Assume W is modular, Paretian and scale invariant. Then, the following decomposition emerges:

$$W = \bar{y} \cdot E(y).$$

- ▶ Here, \bar{y} is the mean, $y(\omega) = c$, and E is a measure of equity (or 1 minus inequality), building on Atkinson (1970).
- ▶ Thus, social welfare can be decomposed in two main aspects:
 - ▶ *the time attitude* (ω),
 - ▶ *the efficiency-equity trade-off* ($\bar{y} \cdot E$).

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Generalized Ramsey rule

- **Proposition 2.** Assume W is modular and Paretian, and ω , V are “differentiable”. Then, the social discount rate follows:

$$SDR_t = \frac{1}{t} \ln(\omega'(0)/\omega'(t)) + \frac{1}{t} \ln(\mu(0; y)/\mu(\omega(t); y)).$$

- The first term captures the “pure time preference”, embodied by the time-discounting function.
- The second term captures inequality adjustment ($\mu(i; y)$ is the marginal of V at i given y).

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- ▶ The first term captures the “pure time preference”, embodied by the time-discounting function.
- ▶ The second term captures inequality adjustment ($\mu(i; y)$ is the marginal of V at i given y).
- ▶ As a special case, the standard Ramsey rule obtains: $SDR_t = \rho + \eta g_t^C$.

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- ▶ The first term captures the “pure time preference”, embodied by the time-discounting function.
- ▶ The second term captures inequality adjustment ($\mu(i; y)$ is the marginal of V at i given y).
- ▶ As a special case, the standard Ramsey rule obtains: $SDR_t = \rho + \eta g_t^c$.
- ▶ For parametric rank-dependent families: $SDR_t^{erd} = \rho + \eta g_t^c + \gamma g_t^r$.

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Conclusion

- ▶ We propose modular theories of intergenerational justice.
- ▶ Distinctive features:
 - ▶ It builds on and highlights a variety of attitudes towards discounting and inequality;
 - ▶ It is very general and flexible, and enriches the toolbox of economic analysis. At the same time, the parametric specifications of these theories remain suitable for investigation of optimal policies.
- ▶ Estimation, application, and generalization of the modular theories also open many avenues for future research.

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Characterization

Existence and uniqueness

Discounting and inequality

Impatience and discounting
Inequality aversion and
aggregation