

Wealth Protection in Bankruptcy and Serial Entrepreneurship

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2. Protect debtor opportunities ⇒ encourage entrepreneurs to take risk

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RQ: Does protecting post-bankruptcy wealth help *failed* entrepreneurs to restart?

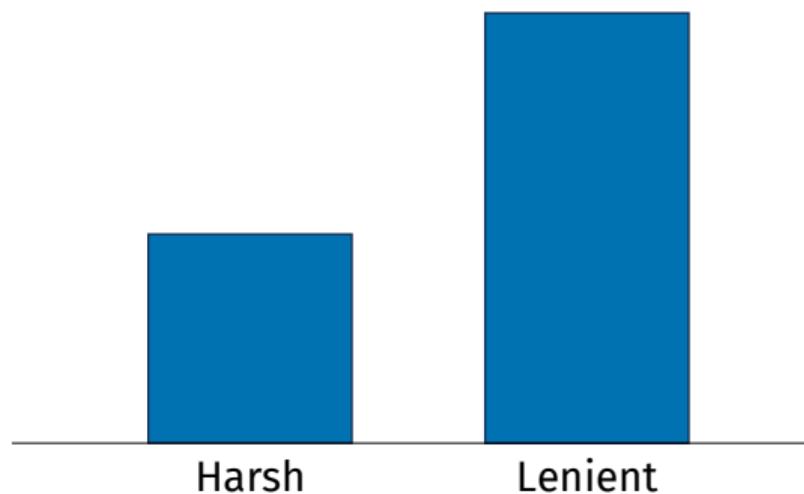
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Variation in post-bankruptcy wealth by bankruptcy law



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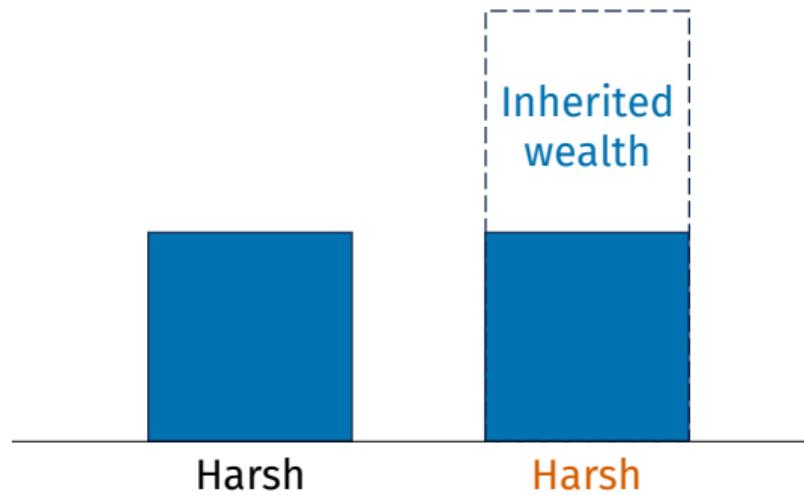
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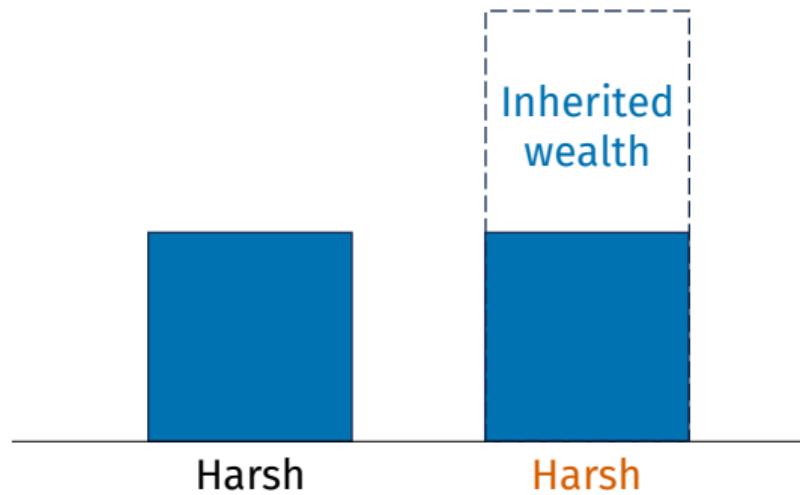


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Identifying assumption: Timing of inheritance is random to that of bankruptcy

Personal bankruptcy in Denmark

Personal bankruptcy discharges personally liable debts

Bankruptcy process

1. Debtor files to local jurisdiction & court reviews the filing

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1. If inheritance is anticipated, the court rejects the filing ► Fig: inheritance timing

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Institutional features about windfalls

1. If inheritance is anticipated, the court rejects the filing ► Fig: inheritance timing
2. Unexpected windfalls *after* bankruptcy ruling belong to debtor
 - Creditors do not have claims to them

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- ⇒ Link 4 datasets via personal identifier (\simeq Social Security numbers in the US)

Sample selection

Treatment group: bankrupt entrepreneurs who receive windfalls from inheritance

- Treatment window: occurs up to 3 calendar years after bankruptcy
- Average: 55,000 EUR / Median[†]: 20,000 EUR
- Median inheritance[†] = 22% of pre-bankruptcy debt

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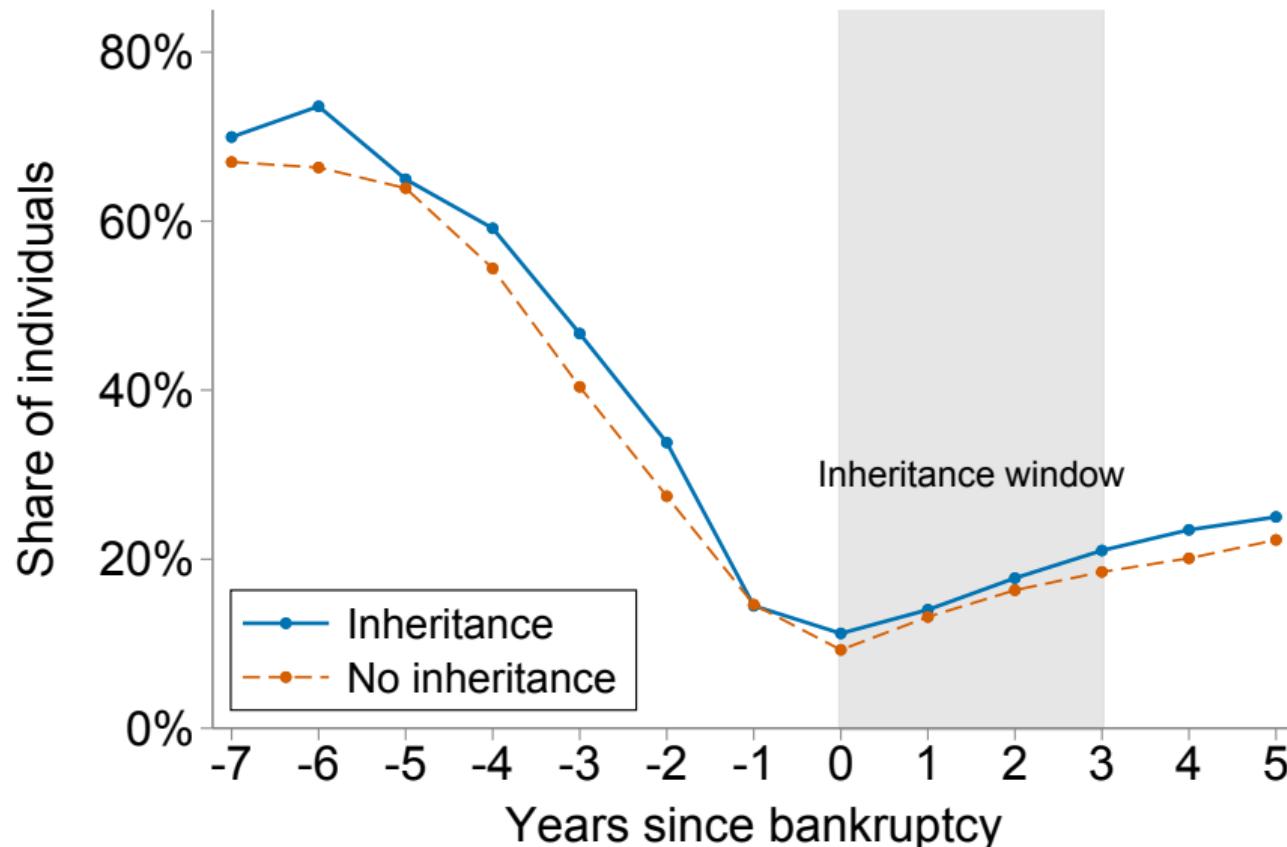
Control group: bankrupt entrepreneurs who *do not* receive inheritance

- Matched to the 'treated' group by individual characteristics (age, wealth etc.)
- ∴ Number of unique individuals: **214 treated & 205 matched control**
- Sample period: year of bankruptcy through 5 subsequent years (years 0–5)

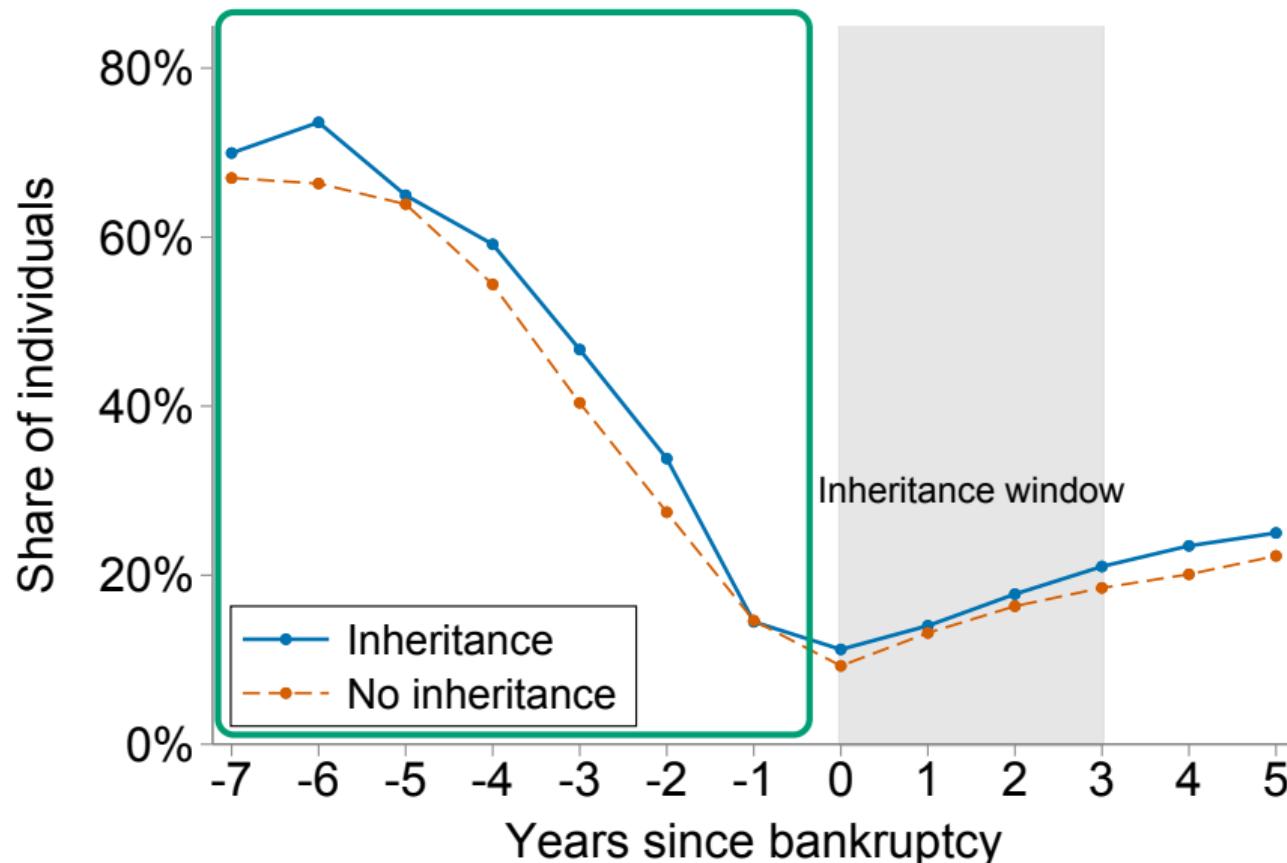
▶ Matching detail

▶ Summary statistics

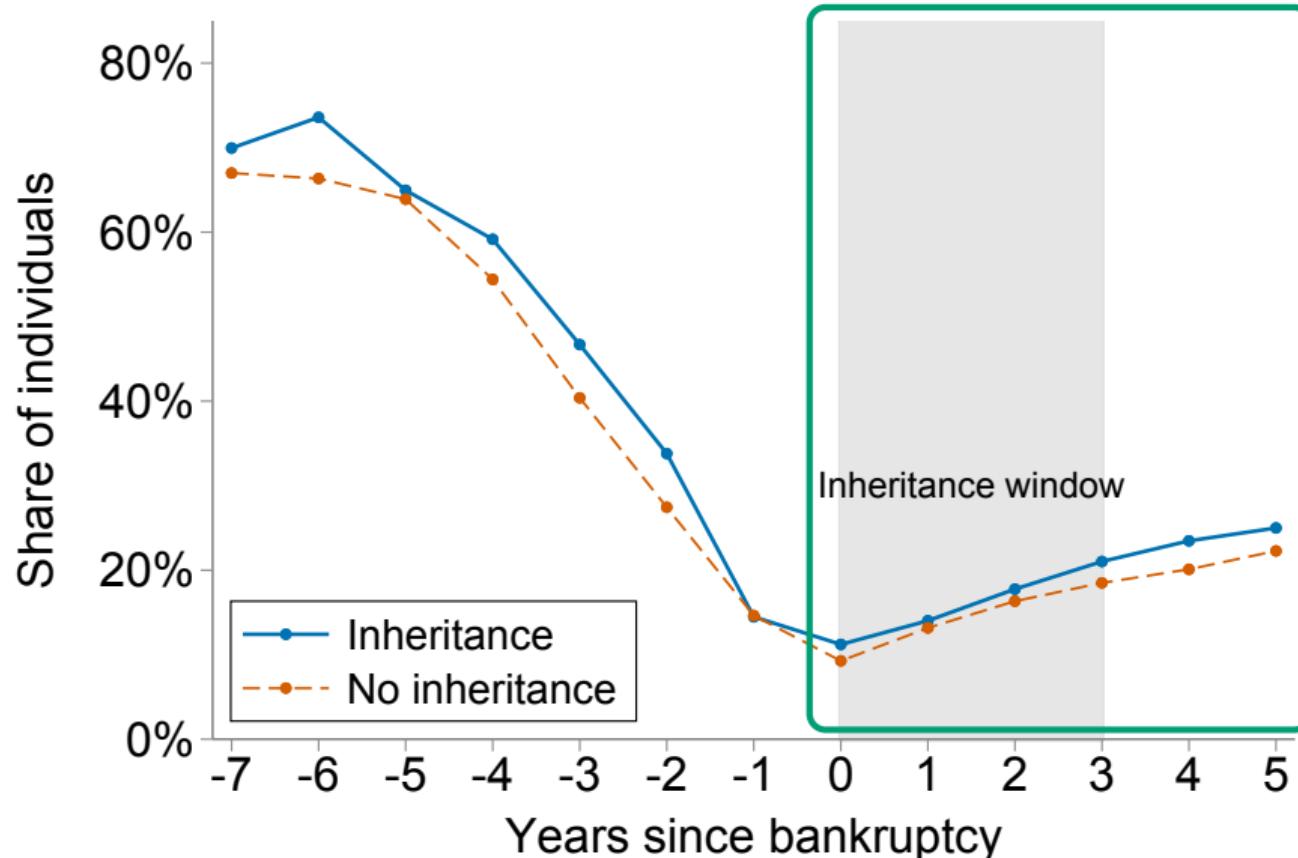
Dynamics of business ownership around bankruptcy



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Estimating effects of inheritance on serial entrepreneurship

Regression with matched sample:

$$Owner_{it} = \alpha_y + \beta After\ inheritance_{it} + \gamma X'_{it} + \varepsilon_{it}, (t = 0, \dots, 5)$$

- $Owner_{it}$: indicator equals one if individual i owns a business in event year t
- $After\ inheritance_{it}$: indicator equals one after receiving an inheritance
 - Alternative measure using variation in size: $Large\ inheritance_{it}$

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 - Alternative measure using variation in size: $Large\ inheritance_{it}$
- Calendar-year fixed effect: α_y
- Controls X'_{it} , characteristics on:
 - Bankruptcy case: bankruptcy chapter, discharge ratio
 - Individual: pre-bankruptcy wealth and income, age, gender, years of education
- Cluster standard errors at the individual level

Effect of inheritance on serial entrepreneurship

$$Owner_{it} = \alpha_y + \beta After\ inheritance_{it} + \gamma X'_{it} + \varepsilon_{it}, (t = 0, \dots, 5)$$

	(1)	(2)
After inheritance	0.048 (1.64)	0.054 (1.39)
After inheritance \times Large inheritance		-0.012 (-0.24)
Controls	Yes	Yes
Year fixed effects	Yes	Yes
Observations	2,480	2,480

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- Larger windfalls do not have incremental effect

Why doesn't windfall wealth promote serial entrepreneurship?

The null effect contrasts with related studies:

- Wealth protection in bankruptcy \Rightarrow *first-time* entrepreneurship ↑
(Fan and White 2003; Armour and Cumming 2008; Cerqueiro et al. 2019)
- Wealth windfalls *outside* bankruptcy \Rightarrow entrepreneurship ↑
(e.g., Holtz-Eakin et al. 1994; Andersen and Nielsen 2012; Bellon et al. 2021; Cespedes et al. 2021)

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 - Wealth windfalls *outside* bankruptcy ⇒ entrepreneurship ↑
(e.g., Holtz-Eakin et al. 1994; Andersen and Nielsen 2012; Bellon et al. 2021; Cespedes et al. 2021)
- **Experience of severe loss** may discourage reentry for bankrupt entrepreneurs
- Managers' personal experiences reduce their risk-taking
(e.g., Malmendier et al. 2011; Dittmar and Duchin 2016; Schoar and Zuo 2017)

Measures of experiencing severe losses

Entrepreneurial experiences with **severe** impacts on **personal** income & wealth

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Entrepreneurial experiences with **severe** impacts on **personal** income & wealth

1. Experiencing **negative** personal income from business before bankruptcy
2. Accumulating **large** personal debt from failed business
3. Being held **fully** personally liable for business debts (vs. partially liable)
 - Solely owned an unlimited liability company (ULC) before bankruptcy (vs. LLC)

Estimating effects of experiencing severe loss

Regression with matched sample:

$$\begin{aligned} Owner_{it} = \alpha_y + \beta_1 After\ inheritance_{it} + \beta_2 Severe\ loss_i \\ + \beta_3 After\ inheritance_{it} \times Severe\ loss_i + \gamma X'_{it} + \varepsilon_{it}, \end{aligned}$$

β_1 & β_3 : differential response to inheritance by experience of severe loss

Effect of experiencing severe loss

	Measures of severe loss		
	(1) Negative income	(2) Large business debt	(3) Full personal liability
After inheritance	0.131*** (2.78)	0.103*** (2.75)	0.126 (1.64)
After inheritance × Severe loss	-0.136** (-2.31)	-0.132** (-2.31)	-0.102 (-1.27)
Controls	Yes	Yes	Yes
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Observations	2,018	2,480	2,480

- Sample mean of Owner = 19%
- Experience effect persists across different inheritance sizes:
 - ↳ Inherited wealth → Above-median inheritance

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Returns to serial entrepreneurship

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Returns to serial entrepreneurship

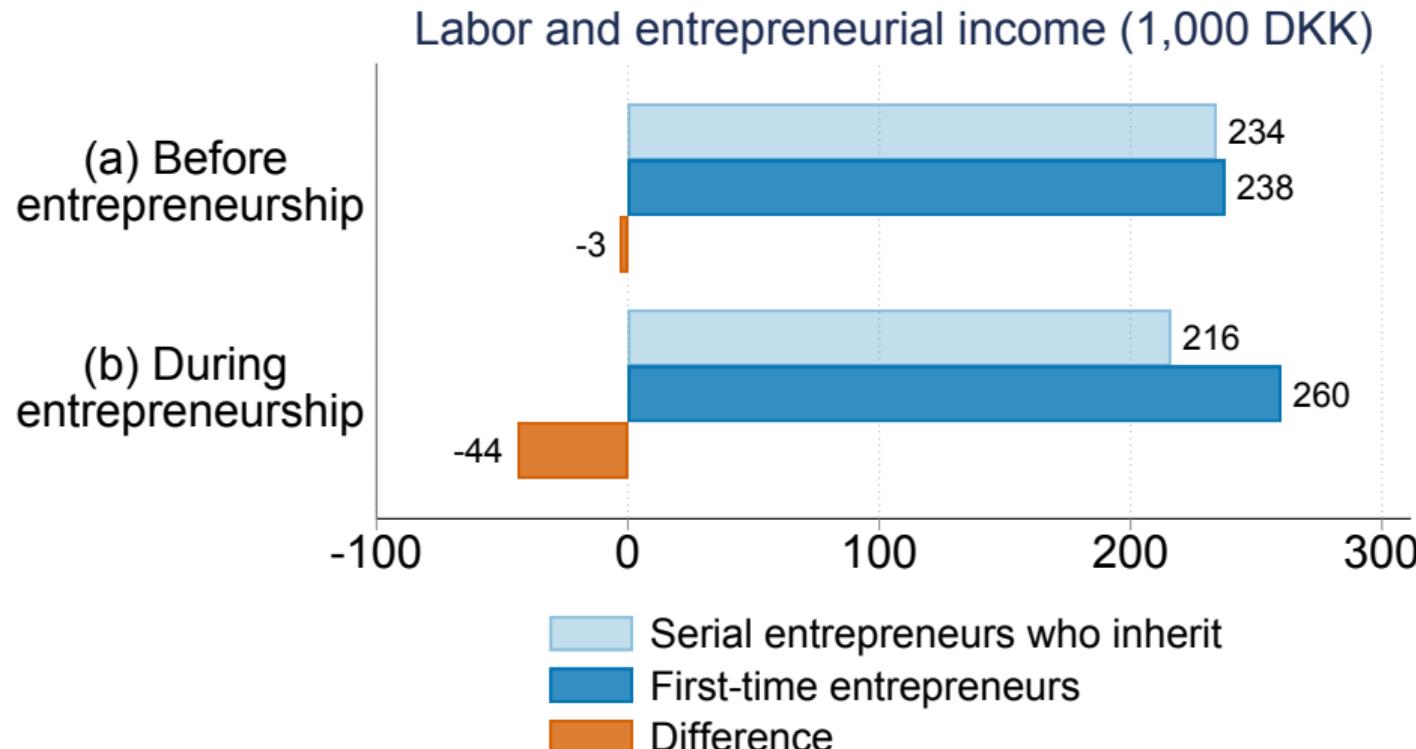
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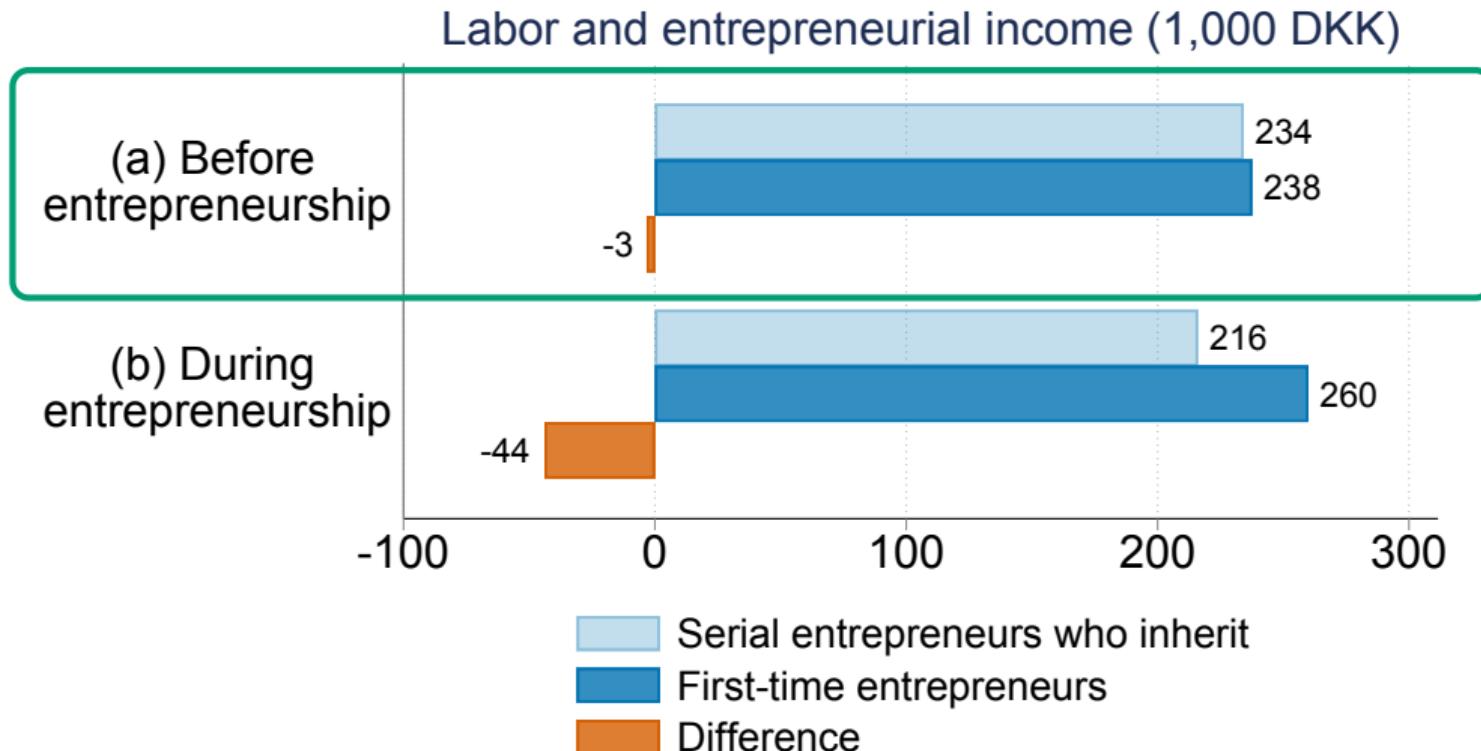
▶ Matching detail

▶ Summ stat

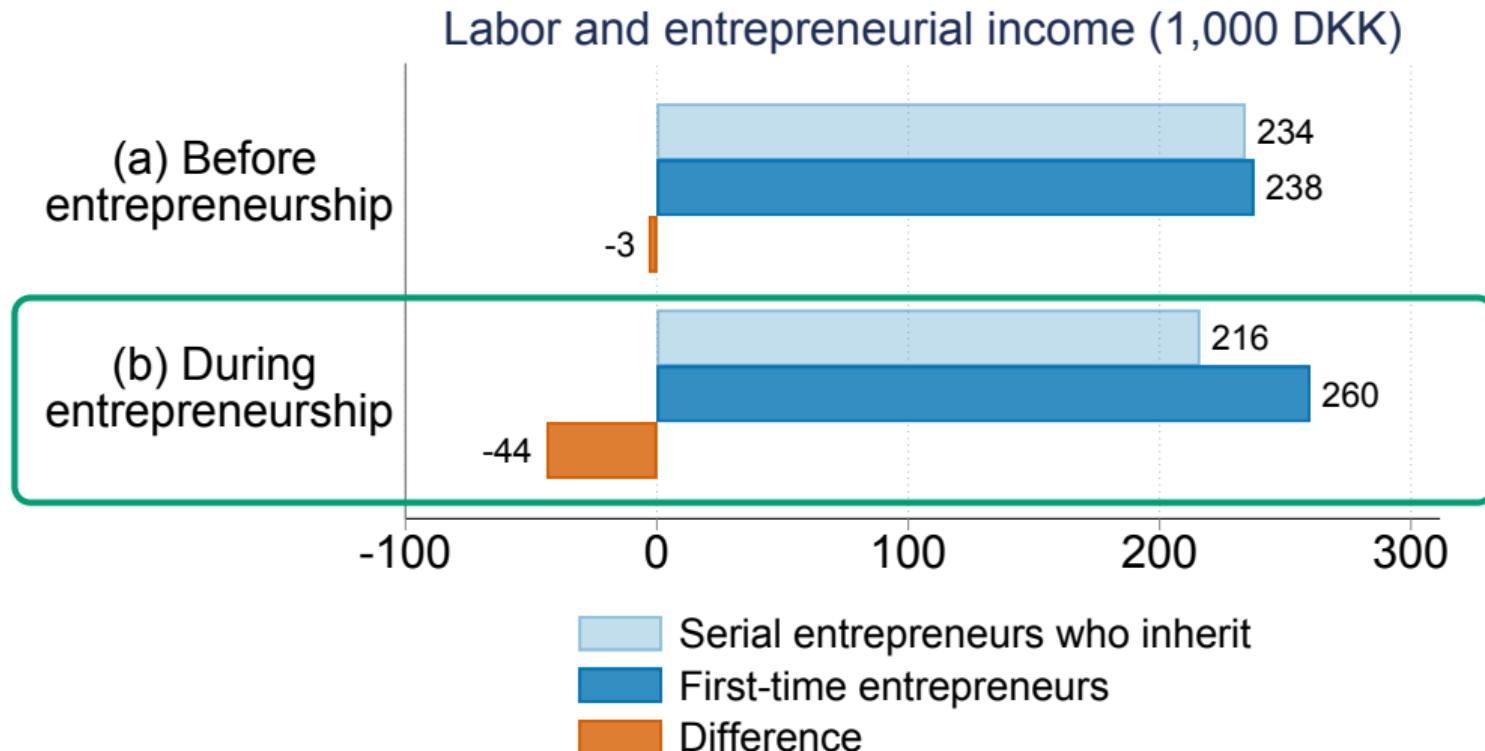
Returns to entrepreneurship between two groups



Before (re)starting, similar income levels



After (re)starting, 20% lower profits for the treated



Conclusion

First study to examine if post-bankruptcy wealth helps failed entrepreneurs to restart a business

- Windfall wealth \Rightarrow serial entrepreneurship, *only if* less severe experience

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Limited effectiveness of “second-chance” bankruptcy policies

1. Wealth protection effect limited by personal experience
2. Low entrepreneurial quality
3. Costs for other entrepreneurs in the economy (e.g., reduced credit supply)

Thank you!

Appendix

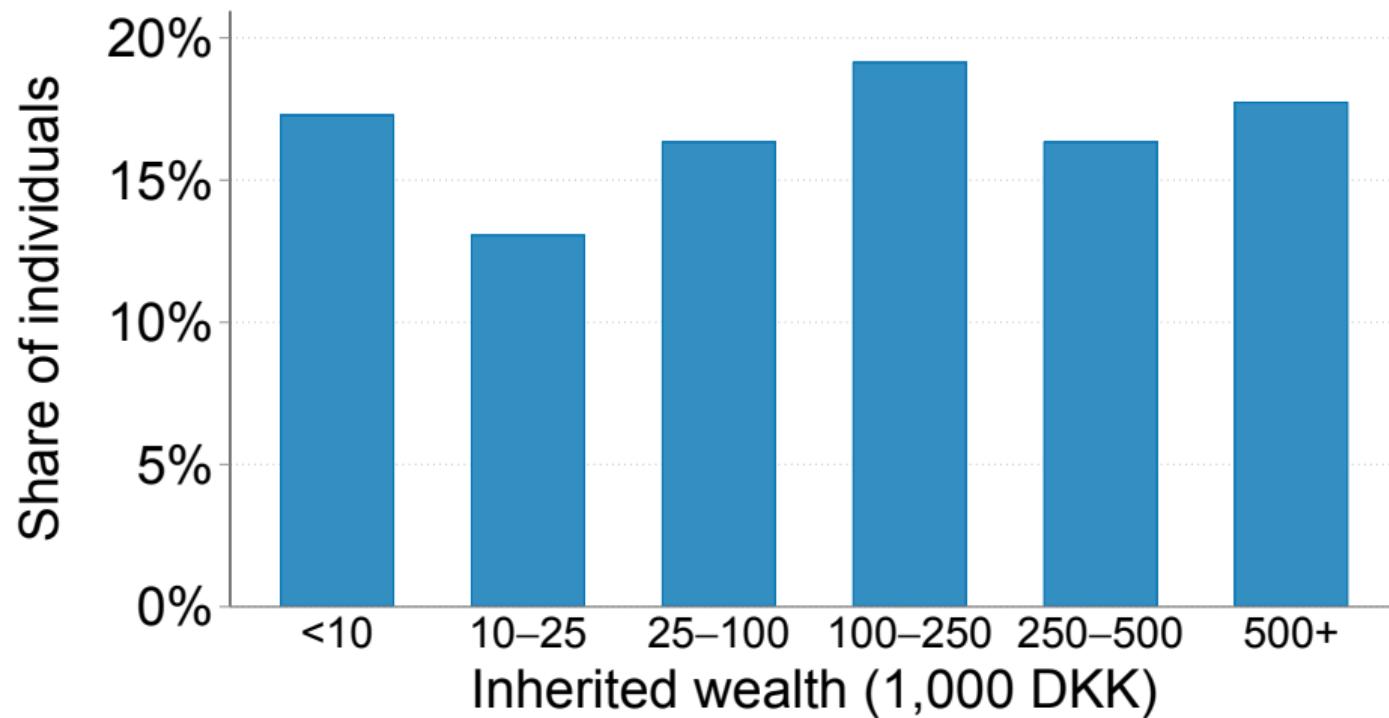
Summary statistics: mean, [t-statistic]

	All	Matched sample		Difference	
		Treated (1)	Control (2)	(1)-(2)	
A. Wealth and income (1,000 DKK)					
Pre-bankruptcy wealth	-1,200.7	-1,114.3	-1,110.5	-3.8	[-0.0]
Pre-bankruptcy income	282.4	280.3	282.4	-2.1	[-0.2]
B. Individual characteristics					
Age	43.8	47.6	47.4	0.2	[0.3]
Male (%)	73.1	80.4	80.0	0.4	[0.1]
Years of education	11.7	11.7	11.5	0.2	[1.2]
C. Bankruptcy case characteristics					
Business debt chapter (%)	45.7	41.1	40.0	1.1	[0.2]
Discharge ratio (%)	91.0	90.3	92.1	-1.8	[-1.4]
D. Pre-bankruptcy personal business experience					
Pre-bankruptcy LLC owner (%)	18.4	21.0	19.0	2.0	[0.5]
Severe income loss (%)	61.6	55.7	62.7	-7.0	[-1.3]
Low past performance (%)	4.4	2.2	2.5	-0.2	[-0.1]
Number of individuals	4,851	214	205		

▶ Full table with s.e.

Distribution of inherited wealth

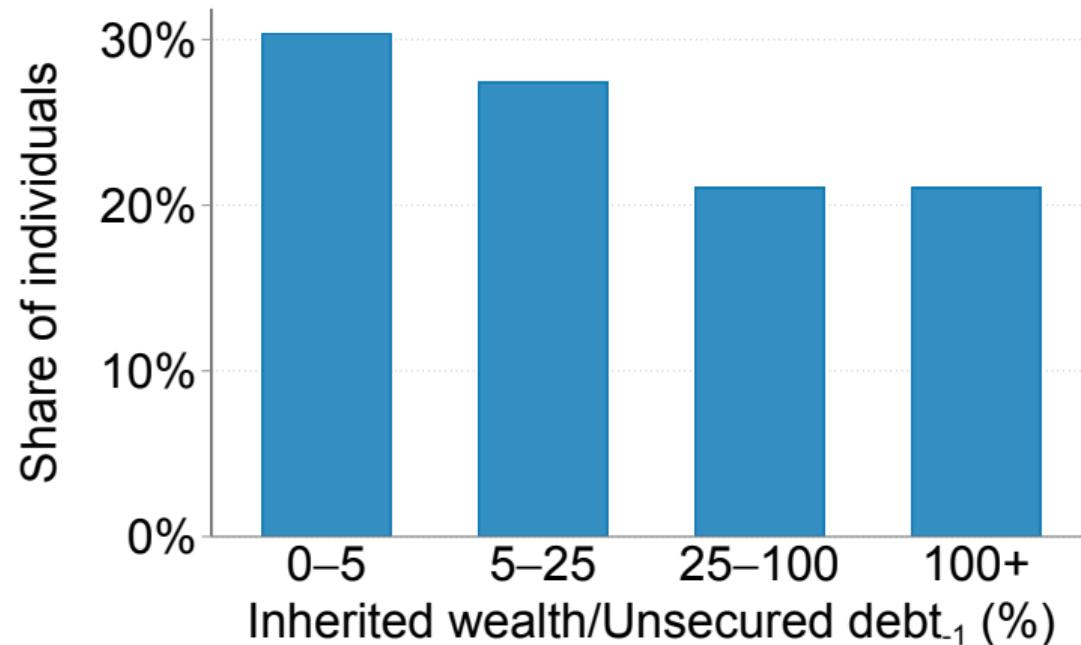
[Back to wealth regression](#)



Average: 308,000 DKK (\approx 50,000 EUR in 2023) / Median[†]: 115,000 DKK (\approx 18,000 EUR)

Distribution of inheritance relative to debt

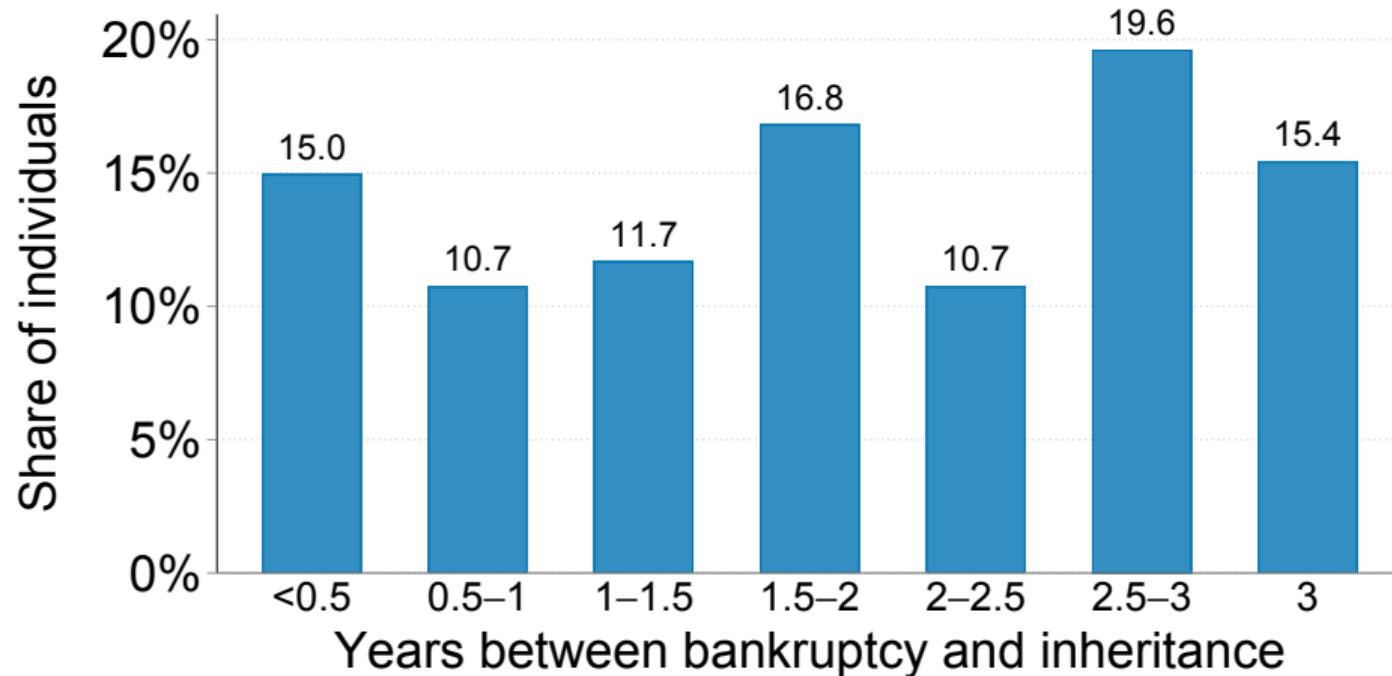
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- Unsecured debt = dischargeable debt
- Median ratio[†] = 22%

Timing of inheritances relative to bankruptcy

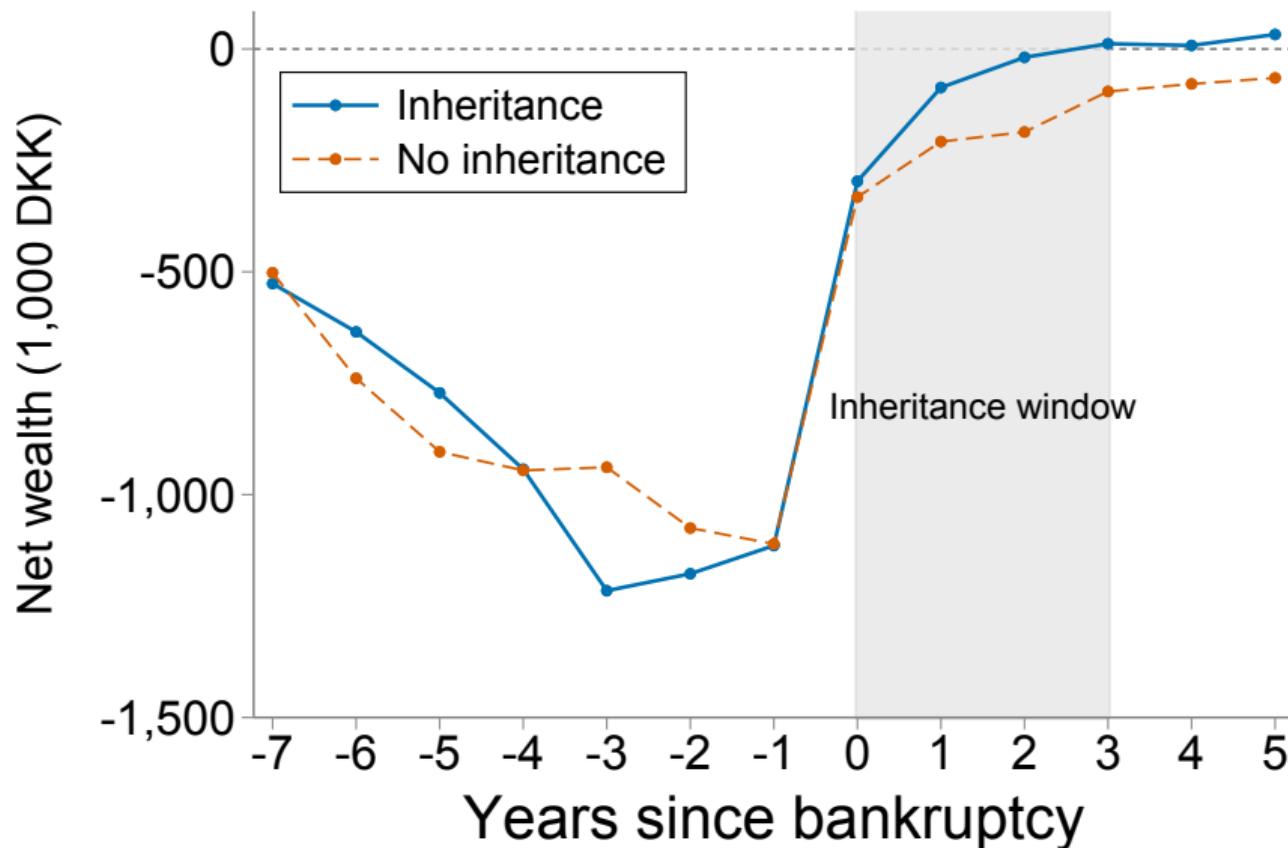
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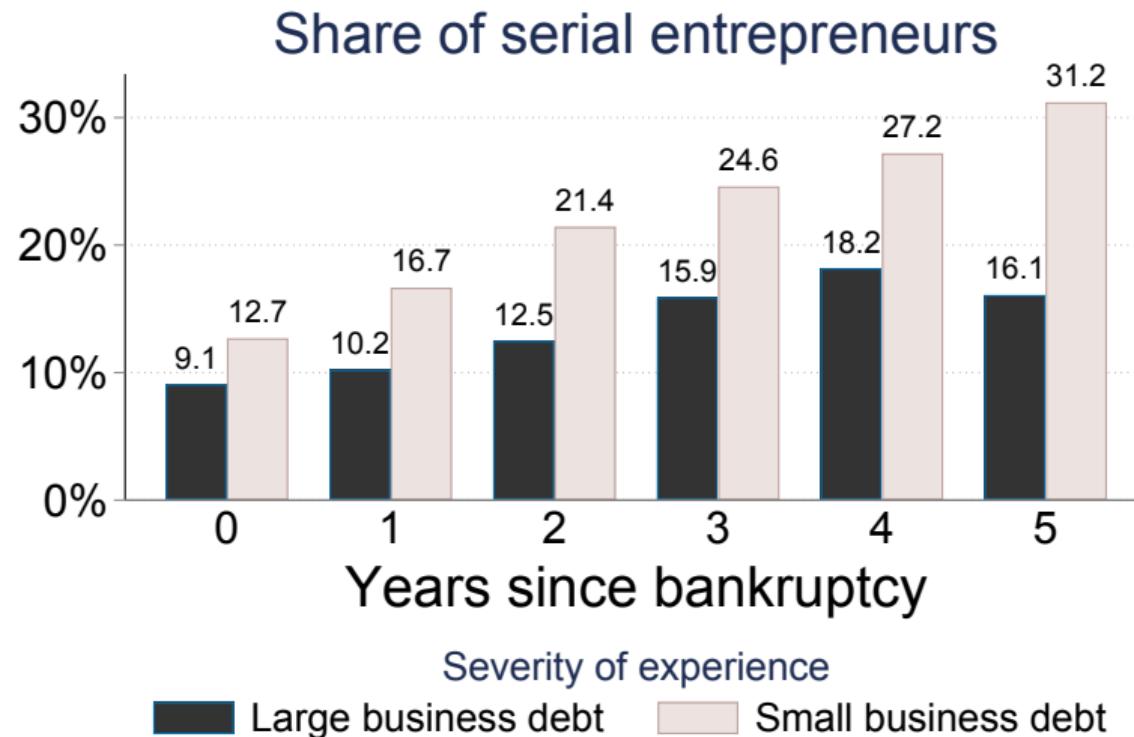
Timing of inheritances does not exhibit bunching in first 6–12 months

Dynamics of net wealth around bankruptcy

[Back to wealth regression](#)



Effect of experiencing severe indebtedness from business





STATSTIDENDE

NR. 174 09.09.2016 113. ÅRGANG

Udgivet i henhold til lov nr. 419 af 31. maj 2000.

STATSTIDENDE

www.statstidende.dk

Udkommer hverdage kl. 04 undtagen mandage, dager efter 2. påskedag, dager efter 1. juledag og dager efter 2. juledag. Statstidende indeholder oversigt over retslige kundgørelser, forskellige kundgørelser fra stat, kommuner og virksomheder, samt mortifikationer i det første nummer i hvert kvartal.

Priser er pr. 15. august 2014 og forefindes på: www.statstidende.dk/priser.htm.

Indrykning faktureres i den måned de offentliggøres. Fakturaen vedlægges ikke særskilt dokumentation. På www.statstidende.dk kan meddelelses fremragtes direkte online og i PDF-version i et år.

Brugerservice, tlf. 70 80 77 80 (man. - tors. kl. 8.30-16, fra. kl. 8.30-14.30) og redaktion@statstidende.dk.
Redaktionsmedlem, tlf. 43 43 33 11 (man. - tors. kl. 9-15, fra. kl. 9-14) og redaktionen@statstidende.dk.
Bogholderi, tlf. 3395 1089 og bogholderi@statstidende@statens-admin.dk.

Indrykning foregår via statstidende.dk og kan ske frem til kl. 07 dagen før offentliggørelse. Deadlines forud for fulgt med et skema. Fristen for certifikationer og indkaldeelse til ejendomsdom offentliggøres på forsiden af statstidende.dk.

Statstidende ISSN 1399-8714

Statstidende harer til Justitsministeriets område og varetages af Civilstyrelsen, tlf.: 33 92 33 34, civilstyrelsen@civilstyrelsen.dk.

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JUSTITSMINISTERIET
CIVILSTYRELSEN

Sample page from the State Gazette

- About 2,800 (daily) issues of the Gazette between 2006–2016

▶ Back to Data



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JUSTITSMINISTERIET
CIVILSTYRELSEN

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terne ikke får mulighed for at øve indflydelse på skifternets afgørelse om gældssanering.

John Mikkel Jensen har drevet virksomheden JollyShopping.com v/ John Jensen, CVR-nr. 12345678.

Retten i Randers, den 07.09.2016.

Retskreds
Randers

S07092016-304
I gældssaneringssagen for

Thomas Thomassen

Fødselsdato 10.02.1945
Møllebakken 9
3400 Hillerød
Sagsnr. 1608-773

indkaldes kreditorerne til møde i Retten i Hillerød, Lokale B, Søndre Jernbanevej 18 B, stuen, 3400 Hillerød,

mandag den 10.10.2016, kl. 13.00,

til behandling af skyldnerens forslag til gældssanering.

Forslaget med bilag ligger til eftersyn i skifternet.

Udeblivelse medfører, at kreditorerne ikke får mulighed for at udøve indflydelse på skifternets afgørelse om gældssanering.

Hillerød, den 07.09.2016.

Advokat Kristian Kristiansen

Retskreds
Hillerød

Kendelse

S07092016-37
Skifternet i Hjørring har den 06.09.2016 afsagt kendelse om gældssanering for

Alice Mette Jakobsen

Fødselsdato 10.01.1964
Sønderparken 20
9800 Hjørring

Sagsnr. SKS SKIF-261/2016

på følgende vilkår:

Usikret gæld stiftet af Alice Mette Jakobsen for den 12.05.2016 nedstilles til en dividende på 0,6890%, der betales med en engangsudlodning, når kendelse om gældssanering er endelig.

Hjørring, den 06.09.2016.

Som skifternets medhjælper:
Jens Jensen, advokat
Advokaterne Jens og Jesper

Retskreds
Hjørring

S07092016-92
Sø- og Handelsretternets skifternet har den 06.09.2016 afsagt kendelse om gældssanering for

Anette Rasmussen
Fødselsdato 25.12.1980
Christian 8.s Vej 2B, 1 tv.
1805 Frederiksberg C

Sagsnr. G 36/16-K
på følgende vilkår:

Skyldnerens gæld stiftet inden den 08.03.2016 nedstilles til 4,65628% og afdrages over med 4,18564% 4 uger efter endelig kendelse om gældssanering og 0,47064% den 01.05.2017.

Sø- og Handelsretten, Skifternet, den 07.09.2016.

Retskreds
Sø- og Handelsretten

S07092016-37

Sample page from the State Gazette

- About 2,800 (daily) issues of the Gazette between 2006–2016
- Using document index, locate relevant sections
- Obtain 210,000 notices on different stages of bankruptcy & liquidation proceedings (e.g., case opens, calls for creditors, ruling is made ...)

terne ikke får mulighed for at øve indflydelse på skifternets afgørelse om geldssanering.

John Mikkel Jensen har drevet virksomheden JollyShopping.com v/ John Jensen, CVR-nr. 12345678.

Retten i Randers, den 07.09.2016.

Retskreds
Randers

S07092016-304
I geldssaneringssagen for

Thomas Thomassen

Fødselsdato 10.02.1945
Møllebakken 9
3400 Hillerød
Sagsnr. 1608-773

indkaldes kreditorerne til møde i Retten i Hillerød, Lokale B, Søndre Jernbanevej 18 B, stuen, 3400 Hillerød,

mandag den 10.10.2016, kl. 13.00,
til behandling af skyldnerens forslag til
geldssanering.

Forslaget med bilag ligger til eftersyn i
skifternet.
Udeblivelse medfører, at kreditorerne
ikke får mulighed for at udøve indfly-
delse på skifternets afgørelse om
geldssanering.

Hillerød, den 07.09.2016.

Advokat Kristian Christiansen

Retskreds
Hillerød

Kendelse

S07092016-37

Skifternet i Hjorring har den
06.09.2016 afsagt kendelse om
geldssanering for

Alice Mette Jakobsen

Fødselsdato 10.01.1964
Sønderparken 20
9800 Hjørring
Sagsnr. SKS SKIF-261/2016

på følgende vilkår:

Usikret gæld stiftet af Alice Mette Jakobsen for den 12.05.2016 nedstættes til en dividend på 0,6890%, der betales med en engangsudlodning, når kendelse om geldssanering er endelig.

Hjørring, den 06.09.2016.

Som skifternets medhjælper:
Jens Jensen, advokat
Advokaterne Jens og Jesper
Vestergade 3
9800 Hjørring

Retskreds
Hjørring

S07092016-92
So- og Handelsretternets skifternet har den
06.09.2016 afsagt kendelse om
geldssanering for

Annie Rasmussen
Fødselsdato 25.12.1980
Christian 8.s Vej 2B, 1 tv.
1805 Frederiksberg C

Sagsnr. G 36/16-K
på følgende vilkår:

Skyldnerens gæld stiftet inden den
12.04.2016 nedstættes til 34,94%,
afdrages over en fem-årig periode.

So- og Handelsretten, Skifternet, den
07.09.2016.

Retskreds
So- og Handelsretten

Sample page from the State Gazette

- About 2,800 (daily) issues of the Gazette between 2006–2016
- Using document index, locate relevant sections
- Obtain 210,000 notices on different stages of bankruptcy & liquidation proceedings (e.g., case opens, calls for creditors, ruling is made ...)
- Calls for creditors' meeting
- Rulings (under Kendelse)

S07092016-92

Sø- og Handelsretten skifteret har den
06.09.2016 afsagt kendelse om
gældssanering for

Jesper Rasmus Jespersen

Fødselsdato 19.10.1938

Margrethevej 32, 2 th
2300 København S

Sagsnr. G 46/16-K

på følgende vilkår:

Skyldnerens gæld stiftet inden den
12.04.2016 nedsættes til 34,94%, som
afdrages over en fem-årige periode.

Sø- og Handelsretten, Skifteretten, den
07.09.2016.

Retskreds

Sø- og Handelsretten

Sample notice on bankruptcy ruling

Contains structured, textual info on the case & the debtor

S07092016-92

Sø- og Handelsretten skifteret har den
06.09.2016 afsagt kendelse om
gældssanering for

Jesper Rasmus Jespersen

Fødselsdato 19.10.1938

Margrethevej 32, 2 th
2300 København S

Sagsnr. G 46/16-K

på følgende vilkår:

Skyldnerens gæld stiftet inden den
12.04.2016 nedsættes til 34,94%, som
afdrages over en fem-årige periode.

Sø- og Handelsretten, Skifteretten, den
07.09.2016.

Retskreds

Sø- og Handelsretten

Sample notice on bankruptcy ruling

Contains structured, textual info on the case & the debtor

- Date of ruling
 - Name
 - Date of birth
 - Address
 - Discharge ratio (= %Debt discharged in bankruptcy/Total debt)
 - Court
- Assign personal identifiers to 14,000 bankrupt individuals

Effect by inheritance size

Inherited wealth: measured in 1 million DKK

	Measures of severe loss		
	(1) Negative income	(2) Large business debt	(3) Full personal liability
After inheritance × Inherited wealth	0.190*** (6.01)	0.060 (1.04)	0.131*** (3.84)
After inheritance × Inherited wealth × Severe loss	-0.206*** (-5.87)	-0.091 (-0.56)	-0.121*** (-2.79)
Controls	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes
Observations	2,018	2,480	2,480

▶ Back to main spec

Effect of larger inheritances

Large inheritance: indicator for inheritance above median

	Measures of severe loss		
	(1) Negative income	(2) Large business debt	(3) Full personal liability
After inheritance	0.149** (2.38)	0.099** (1.98)	0.217** (2.12)
After inheritance × Severe loss	-0.145* (-1.81)	-0.111 (-1.42)	-0.194* (-1.80)
After inheritance × Large inheritance	-0.040 (-0.43)	0.007 (0.10)	-0.155 (-1.21)
After inheritance × Large inheritance × Severe loss	0.023 (0.20)	-0.040 (-0.41)	0.159 (1.17)
Controls	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes
Observations	2,018	2,480	2,480

20% lower income from serial entrepreneurship

Income is measured in 1,000 DKK

	Labor and entrepreneurial income			Labor and entrepreneurial income (conditional on survival)		
	(1)	(2)	(3)	(4)	(5)	(6)
After inheritance	-63.8*** (-2.64)		-34.8 (-1.20)	-59.8** (-2.28)		-31.9 (-1.02)
After inheritance × Inherited wealth		-43.1*** (-2.91)			-41.1*** (-2.75)	
After inheritance × Large inheritance			-61.7** (-2.00)			-60.4* (-1.91)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	1,213	1,213	1,213	998	998	998

▶ Full table

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	All		Matched sample		Difference	
	Treated (1)	Control (2)	(1)-(2)			
A. Wealth and income (1,000 DKK)						
Pre-bankruptcy wealth	-1,200.7	(2,152.0)	-1,114.3	(1,780.2)	-1,110.5	(1,806.6)
Pre-bankruptcy income	282.4	(137.9)	280.3	(126.4)	282.4	(134.6)
B. Individual characteristics						
Age	43.8	(8.4)	47.6	(6.9)	47.4	(6.8)
Male (%)	73.1	(44.4)	80.4	(39.8)	80.0	(40.1)
Years of education	11.7	(1.8)	11.7	(1.9)	11.5	(1.9)
C. Bankruptcy case characteristics						
Business debt chapter (%)	45.7	(49.8)	41.1	(49.3)	40.0	(49.1)
Discharge ratio (%)	91.0	(13.5)	90.3	(14.6)	92.1	(11.3)
D. Pre-bankruptcy personal business experience						
Pre-bankruptcy LLC owner (%)	18.4	(38.7)	21.0	(40.8)	19.0	(39.3)
Pre-bankruptcy ULC owner (%)	82.8	(37.8)	82.2	(38.3)	81.0	(39.3)
Severe income loss (%)	61.6	(48.6)	55.7	(49.8)	62.7	(48.5)
Low past performance (%)	4.4	(20.6)	2.2	(14.8)	2.5	(15.5)
Number of individuals	4851		214		205	

Inheritance does not lead to serial entrepreneurship

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	(1)	(2)	(3)
After inheritance	0.048 (1.64)		0.054 (1.39)
After inheritance × Inherited wealth		0.055 (1.03)	
After inheritance × Large inheritance			-0.012 (-0.24)
Business debt chapter	-0.062* (-1.83)	-0.060* (-1.79)	-0.061* (-1.82)
Discharge ratio	0.002** (2.39)	0.002** (2.32)	0.002** (2.41)
Pre-bankruptcy wealth	-0.000* (-1.78)	-0.000* (-1.73)	-0.000* (-1.79)
Pre-bankruptcy income	-0.000 (-1.61)	-0.000* (-1.66)	-0.000 (-1.60)
Age	-0.000 (-0.18)	-0.001 (-0.23)	-0.000 (-0.16)
Male	0.101*** (3.14)	0.104*** (3.25)	0.100*** (3.09)
Years of education	0.019** (2.29)	0.020** (2.34)	0.020** (2.29)
Year fixed effects	Yes	Yes	Yes
R ²	0.06	0.06	0.06
Individual-year observations	2,480	2,480	2,480

Personal experience: negative personal income

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	(1)	(2)	(3)
After inheritance	0.131*** (2.78)	0.149** (2.38)	
After inheritance × Severe income loss	-0.136** (-2.31)	-0.145* (-1.81)	
After inheritance × Inherited wealth	0.190*** (6.01)		
After inheritance × Inherited wealth × Severe income loss		-0.206*** (-5.87)	
After inheritance × Large inheritance			-0.040 (-0.43)
After inheritance × Large inheritance × Severe income loss			0.023 (0.20)
Severe income loss	0.056* (1.68)	0.030 (0.94)	0.055* (1.68)
Business debt chapter	-0.027 (-0.71)	-0.027 (-0.69)	-0.026 (-0.68)
Discharge ratio	0.001 (1.56)	0.001 (1.42)	0.001 (1.53)
Pre-bankruptcy wealth	-0.000 (-1.03)	-0.000 (-1.04)	-0.000 (-1.04)
Pre-bankruptcy income	-0.000** (-2.46)	-0.000** (-2.50)	-0.000** (-2.47)
Age	0.000 (0.07)	0.000 (0.12)	0.000 (0.11)
Male	0.051 (1.28)	0.055 (1.38)	0.050 (1.24)
Years of education	0.019* (1.93)	0.021** (2.20)	0.019* (1.93)
Year fixed effects	Yes	Yes	Yes
R ²	0.05	0.07	0.05
Individual-year observations	2,018	2,018	2,018

Personal experience: large business debt

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	(1)	(2)	(3)
After inheritance	0.103*** (2.75)	0.099** (1.98)	
After inheritance × Business debt chapter	-0.132** (-2.31)	-0.111 (-1.42)	
After inheritance × Inherited wealth	0.060 (1.04)		
After inheritance × Inherited wealth × Business debt chapter	-0.091 (-0.56)		
After inheritance × Large inheritance		0.007 (0.10)	
After inheritance × Large inheritance × Business debt chapter		-0.040 (-0.41)	
Business debt chapter	-0.014 (-0.37)	-0.053 (-1.50)	-0.014 (-0.36)
Discharge ratio	0.002** (2.35)	0.002** (2.31)	0.002** (2.35)
Pre-bankruptcy wealth	-0.000* (-1.77)	-0.000* (-1.73)	-0.000* (-1.78)
Pre-bankruptcy income	-0.000 (-1.54)	-0.000 (-1.63)	-0.000 (-1.54)
Age	-0.000 (-0.15)	-0.000 (-0.18)	-0.000 (-0.11)
Male	0.101*** (3.15)	0.104*** (3.23)	0.100*** (3.10)
Years of education	0.020** (2.30)	0.020** (2.35)	0.020** (2.29)
Year fixed effects	Yes	Yes	Yes
<i>R</i> ²	0.06	0.06	0.06
Individual-year observations	2,480	2,480	2,480

Personal experience: full personal liability

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	(1)	(2)	(3)	(4)
After inheritance	0.126 (1.64)		0.217** (2.12)	
After inheritance × Full personal liability	-0.102 (-1.27)		-0.194* (-1.80)	
After inheritance × Inherited wealth		0.131*** (3.84)		
After inheritance × Inherited wealth × Full personal liability		-0.121*** (-2.79)		
After inheritance × Large inheritance			-0.155 (-1.21)	0.061 (0.63)
After inheritance × Large inheritance × Full personal liability			0.159 (1.17)	-0.035 (-0.34)
Full personal liability	-0.216*** (-3.85)	-0.234*** (-4.68)	-0.216*** (-3.85)	-0.216*** (-3.85)
Business debt chapter	-0.052 (-1.62)	-0.051 (-1.59)	-0.052 (-1.62)	-0.052 (-1.62)
Discharge ratio	0.002** (1.98)	0.001* (1.77)	0.002** (1.98)	0.002** (1.98)
Pre-bankruptcy wealth	-0.000 (-1.16)	-0.000 (-1.15)	-0.000 (-1.13)	-0.000 (-1.13)
Pre-bankruptcy income	-0.000** (-2.05)	-0.000** (-2.15)	-0.000* (-1.92)	-0.000* (-1.92)
Age	-0.002 (-1.05)	-0.002 (-0.91)	-0.002 (-1.02)	-0.002 (-1.02)
Male	0.090*** (2.83)	0.090*** (2.90)	0.086*** (2.72)	0.086*** (2.72)
Years of education	0.014 (1.56)	0.015* (1.68)	0.013 (1.54)	0.013 (1.54)
After inheritance × Small inheritance			0.217** (2.12)	
After inheritance × Small inheritance × Full personal liability			-0.194* (-1.80)	
Year fixed effects	Yes	Yes	Yes	Yes
R ²	0.13	0.13	0.13	0.13
Individual-year observations	2,480	2,480	2,480	2,480

Robustness: severe loss vs. low entrepreneurial quality

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	(1)	(2)	(3)	(4)
After inheritance	0.054 [*] (1.69)	0.126*** (2.69)	0.103*** (2.63)	0.117 (1.22)
After inheritance × Low past performance	-0.167 [*] (-1.81)	-0.162 (-1.60)	-0.217** (-2.31)	-0.145 (-1.59)
After inheritance × Severe income loss		-0.129** (-2.19)		
After inheritance × Business debt chapter			-0.125* (-1.95)	
After inheritance × Full personal liability				-0.086 (-0.86)
Low past performance	-0.049 (-0.59)	-0.037 (-0.40)	-0.030 (-0.37)	-0.021 (-0.24)
Severe income loss		0.058 [*] (1.65)		
Business debt chapter	-0.049 (-1.25)	-0.040 (-1.00)	-0.002 (-0.05)	-0.048 (-1.30)
Full personal liability				-0.258*** (-3.63)
Discharge ratio	0.002** (2.03)	0.001 (1.58)	0.002 [†] (1.95)	0.001 [*] (1.73)
Pre-bankruptcy wealth	-0.000 (-1.47)	-0.000 (-1.07)	-0.000 (-1.45)	-0.000 (-0.63)
Pre-bankruptcy income	-0.000*** (-2.69)	-0.000** (-2.46)	-0.000*** (-2.62)	-0.000*** (-2.87)
Age	-0.000 (-0.15)	0.000 (0.03)	-0.000 (-0.17)	-0.002 (-0.80)
Male	0.071 [*] (1.71)	0.053 (1.25)	0.071 [*] (1.72)	0.063 (1.56)
Years of education	0.024** (2.55)	0.018 [*] (1.79)	0.024** (2.50)	0.014 (1.45)
Year fixed effects	Yes	Yes	Yes	Yes
R ²	0.06	0.05	0.07	0.13
Individual-year observations	2,022	1,902	2,022	2,022

	Labor and entrepreneurial income			Labor and entrepreneurial income (conditional on survival)		
	(1)	(2)	(3)	(4)	(5)	(6)
After inheritance	-63.8*** (-2.64)		-34.8 (-1.20)	-59.8** (-2.28)		-31.9 (-1.02)
After inheritance × Inherited wealth		-43.1*** (-2.91)			-41.1*** (-2.75)	
After inheritance × Large inheritance			-61.7** (-2.00)			-60.4* (-1.91)
Past bankruptcy	-10.4 (-0.30)	-31.2 (-1.00)	-11.0 (-0.32)	-5.5 (-0.14)	-26.3 (-0.76)	-6.0 (-0.15)
Pre-entrepreneurial wealth	0.0 (0.39)	0.0 (0.43)	0.0 (0.12)	0.0 (0.22)	0.0 (0.26)	-0.0 (-0.08)
Pre-entrepreneurial labor income	0.7*** (10.90)	0.7*** (10.73)	0.7*** (11.16)	0.8*** (10.48)	0.8*** (10.30)	0.8*** (10.75)
Age	-1.1 (-0.72)	-1.2 (-0.79)	-1.0 (-0.68)	0.2 (0.11)	0.1 (0.06)	0.3 (0.17)
Male	17.1 (0.66)	14.8 (0.58)	16.4 (0.63)	19.8 (0.72)	18.3 (0.67)	18.7 (0.68)
Years of education	0.6 (0.14)	0.1 (0.01)	0.6 (0.14)	0.1 (0.02)	-0.5 (-0.10)	-0.0 (-0.00)
Starting a limited liability company	51.0** (2.37)	55.0** (2.52)	53.2** (2.49)	50.5** (2.08)	56.3** (2.30)	54.0** (2.24)
Years of business experience	7.0** (2.15)	7.0** (2.12)	7.0** (2.15)	6.4* (1.73)	6.6* (1.77)	6.3* (1.72)
Year fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
R ²	0.43	0.43	0.44	0.44	0.43	0.44
Individual-year observations	1,213	1,213	1,213	998	998	998

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Robustness: severe loss vs. low entrepreneurial quality

Alternative channel: experiencing severe loss \approx ? low entrepreneurial quality

- Measure of low entrepreneurial quality: low past performance, *relative* to industry
- *Low past performance_i*: individual i 's annual entrepreneurial income has *always* remained at the bottom decile in the 88-industry before bankruptcy
- By measuring *persistent* low performance, separates low skills from 'bad luck'

Repeat the tests controlling for *Low past performance_i*

Severe loss ≠ low entrepreneurial quality

[Full table](#)
[Back to Robustness](#)

	(1)	(2)	(3)	(4)
After inheritance	0.054* (1.69)	0.126*** (2.69)	0.103*** (2.63)	0.117 (1.22)
After inheritance × Low past performance	-0.167* (-1.81)	-0.162 (-1.60)	-0.217** (-2.31)	-0.145 (-1.59)
After inheritance × Severe income loss		-0.129** (-2.19)		
After inheritance × Business debt chapter			-0.125* (-1.95)	
After inheritance × Full personal liability				-0.086 (-0.86)
Low past performance	-0.049 (-0.59)	-0.037 (-0.40)	-0.030 (-0.37)	-0.021 (-0.24)
Severe income loss		0.058* (1.65)		
Full personal liability				-0.258*** (-3.63)
Controls	Yes	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes	Yes
Observations	2,022	1,902	2,022	2,022

Long tenure ≠ experiencing negative income

[▶ Back to Robustness](#)

	(1)
After inheritance	0.169*** (3.19)
Severe income loss	0.056* (1.73)
Long tenure in ULC	-0.025 (-0.69)
After inheritance × Severe income loss	-0.129** (-2.17)
After inheritance × Long tenure in ULC	-0.090 (-1.55)
Controls	Yes
Year fixed effects	Yes
Observations	2,018

Age has no effect on response

[Back to Robustness](#)

	(1)	(2)
After inheritance	0.097 (0.51)	0.011 (0.28)
Age at bankruptcy	-0.001 (-0.45)	
After inheritance \times Age at bankruptcy	-0.001 (-0.27)	
Above median age		-0.030 (-0.81)
After inheritance \times Above median age		0.074 (1.31)
Controls	Yes	Yes
Year fixed effects	Yes	Yes
Observations	2,480	2,480

Effect of negative income similar across chapters

[Back to Robustness](#)

	(1) Ordinary chapter	(2) Business debt chapter
After inheritance	0.128** (2.31)	0.157* (1.89)
Severe income loss	0.051 (1.30)	0.093 (1.36)
After inheritance × Severe income loss	-0.124* (-1.75)	-0.200* (-1.93)
Controls	Yes	Yes
Year fixed effects	Yes	Yes
Observations	1,290	728

Limit to bankruptcies up to 2014:

	Window: up to 7 years after bankruptcy			Window: between 4 and 7 years after bankruptcy		
	(1)	(2)	(3)	(4)	(5)	(6)
After inheritance	0.033 (0.97)		0.026 (0.57)	0.014 (0.32)		0.012 (0.22)
After inheritance × Inherited wealth		0.042 (0.81)			0.026 (0.53)	
After inheritance × Large inheritance			0.013 (0.24)			0.004 (0.07)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	2,644	2,644	2,644	1,296	1,296	1,296

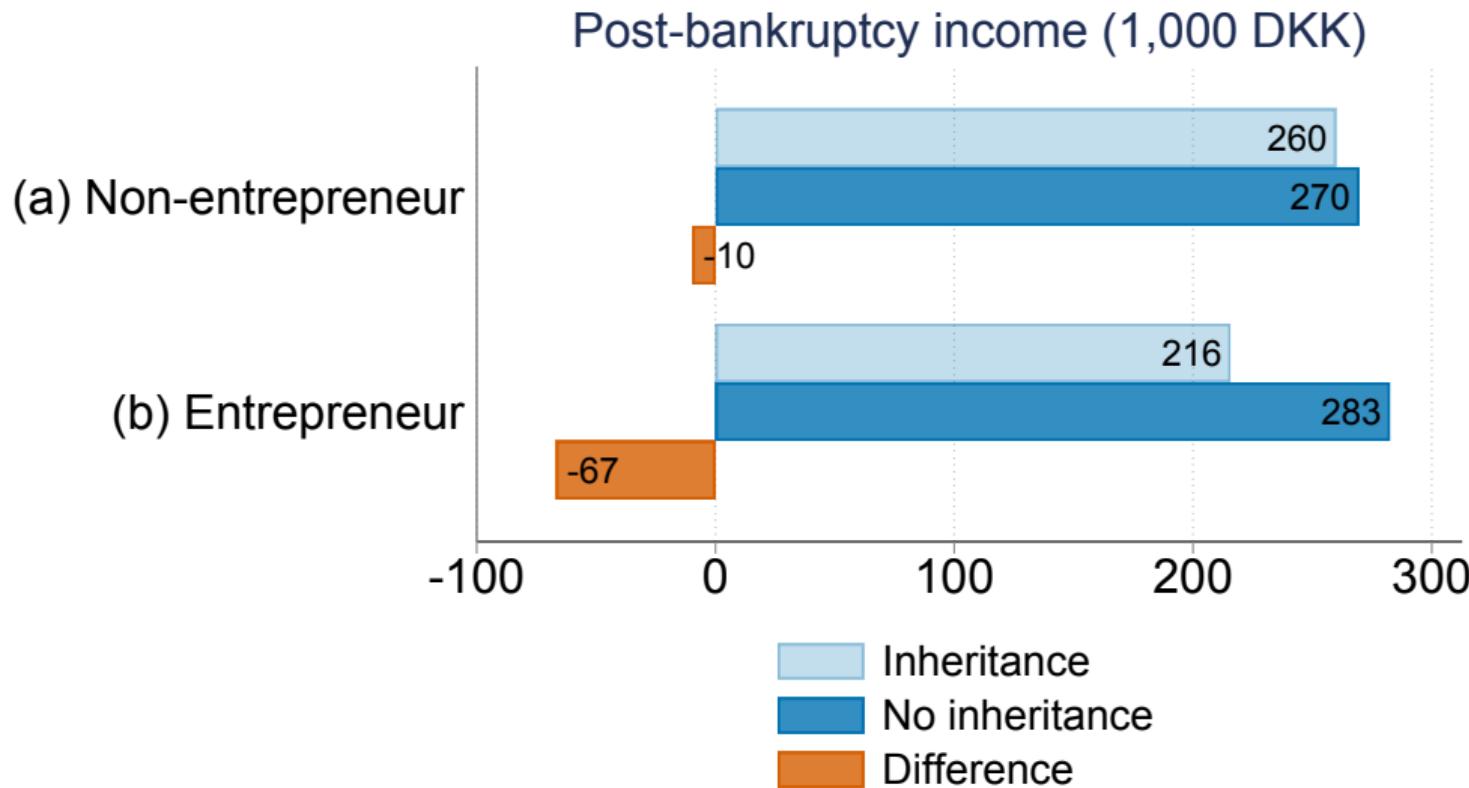
Moreover, find consistent results on experience of severe loss

	Matched sample		Difference	
	Serial entrepreneurs (1)	First-time entrepreneurs (2)	(1)-(2)	
A. Pre-entrepreneurship wealth and income (1,000 DKK)				
Pre-entrepreneurial wealth	-608.4	591.7	-1,200.1***	[-4.1]
Pre-entrepreneurial labor income	251.0	254.5	-3.4	[-0.1]
B. Individual characteristics				
Age	49.2	49.1	0.1	[0.1]
Male	0.9	0.9	0.0	[0.0]
Years of education	11.9	11.9	0.0	[0.0]
C. Entrepreneurial characteristics				
Starting a limited liability company (%)	55.5	55.5	0.0	[0.0]
Years of business experience	6.4	0.0	6.4***	[16.7]
D. Experiencing windfall wealth after bankruptcy				
Inheritance event (%)	50.9	0.0	50.9***	[10.6]
Number of individuals	110	110		

Effect of inheritance on restarters' survival is ambiguous

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	(1)	(2)	(3)
After inheritance	0.086*		0.144***
	(1.88)		(2.72)
After inheritance × Inherited wealth		0.008	
		(0.36)	
After inheritance × Large inheritance			-0.124*
			(-1.92)
Past bankruptcy	0.040	0.075	0.039
	(0.78)	(1.60)	(0.75)
Starting a limited liability company	0.130***	0.128***	0.135***
	(3.18)	(3.11)	(3.27)
Years of business experience	-0.004	-0.004	-0.004
	(-0.58)	(-0.53)	(-0.59)
Controls	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes
Observations	1,213	1,213	1,213



Consistent result when comparing profit *within* bankrupt

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	Labor and entrepreneurial income			Total income		
	(1)	(2)	(3)	(4)	(5)	(6)
After inheritance	-17.3 (-1.31)		-26.2 (-1.56)	-8.2 (-0.89)		-14.3 (-1.26)
After inheritance × Owner	-65.3** (-2.15)		-67.1* (-1.80)	-57.2 ** (-2.05)		-69.6** (-2.14)
After inheritance × Inherited wealth		4.2 (0.49)			3.3 (0.54)	
After inheritance × Inherited wealth × Owner			-27.3 (-1.37)		-26.3 (-1.53)	
After inheritance × Large inheritance				16.9 (0.74)		11.5 (0.71)
After inheritance × Large inheritance × Owner				5.0 (0.12)		26.7 (0.72)
Owner	22.7 (0.92)	-1.9 (-0.10)	22.6 (0.91)	-3.5 (-0.16)	-24.1 (-1.41)	-3.7 (-0.16)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	2,480	2,480	2,480	2,480	2,480	2,480

Main control group: similar bankrupt entrepreneurs who do not receive inheritance

→ Find a nearest-neighbor for each ‘treated’ (with replacements):

1. Exact matching: year of bankruptcy, bankruptcy chapter (either ordinary or business debt chapters), gender, age at bankruptcy (± 1)
2. Among exact matches, select the nearest neighbor based on pre-bankruptcy wealth (measured at year -1)
3. Refine: exclude pairs with large wealth difference ($\geq 1,000,000$ DKK & $\geq 50\%$)

Control group of first-time entrepreneurs for comparing income: Compare profits between serial & matched group of *first-time* entrepreneurs (not bankrupt, by definition)

- Exact match by entrepreneurial characteristics
 - Age (± 1), gender, years of education, incorporation choice, year of (re)starting
- Choose the nearest neighbor in terms of pre-entrepreneurial income

Definition of entrepreneurs

Owners of: Unlimited or Limited liability companies (“ULC”, “LLC”)

1. ULC entrepreneur: primary income from ULC, per labor market register
 - Type of ULCs: sole proprietorship, partnership
 - Business debt = personally liable
 - Business income = personal income

2. LLC entrepreneur: person who owns a LLC, per Central Business Register
 - Type of LLCs: public & private limited liability companies
 - Business debt = personally liable, if borrowed personally or guaranteed

Two bankruptcy chapters: Ordinary vs. business debt chapters

- Denmark has two different personal bankruptcy procedures
- Mostly similar: liquidates all assets and discharges debt
- Difference: “business debt chapter” may be preferable for eligible entrepreneurs (Bang-Pedersen 2018)

	Ordinary chapter	Business debt chapter
Nature of debt	Any non-consumer debt	Business debt ($\geq 75\%$) [†]
Stable job at filing	Yes	No
Repayment period	5 years	3 years

[†] (Useful in identifying entrepreneurs with large business debts)