

STICKING TO YOUR PLAN:  
HYPERBOLIC DISCOUNTING AND CREDIT CARD DEBT  
PAYDOWN

Theresa Kuchler

April 2014

## GOAL AND DATA

**Question:** Why do people hold large credit card balances at high cost over substantial time horizons?

## GOAL AND DATA

**Question:** Why do people hold large credit card balances at high cost over substantial time horizons?

**Goal:** Estimate the role of present bias in debt paydown

# GOAL AND DATA

**Question:** Why do people hold large credit card balances at high cost over substantial time horizons?

**Goal:** Estimate the role of present bias in debt paydown

**Data:** Sample of users of financial management website

- Account balances
- Spending on credit and debit card
- Income
- Planned paydown

# PRESENT BIAS - DEFINITION

## Present Bias

- More impatient in short-run ( $\beta\delta$ ) than long-run ( $\delta$ )

$$U_t = u(c_t) + \beta \sum_{\tau=t+1}^{\infty} \delta^{\tau} u(c_{\tau})$$

→ Time **in**consistent

# PRESENT BIAS - DEFINITION

## Present Bias

- More impatient in short-run ( $\beta\delta$ ) than long-run ( $\delta$ )

$$U_t = u(c_t) + \beta \sum_{\tau=t+1}^{\infty} \delta^{\tau} u(c_{\tau})$$

→ Time **in**consistent

- Two present-biased types
  - Fully Aware → **Sophisticated**
  - Unaware of changing preferences → **Naive**

# PRESENT BIAS - DEFINITION

## Present Bias

- More impatient in short-run ( $\beta\delta$ ) than long-run ( $\delta$ )

$$U_t = u(c_t) + \beta \sum_{\tau=t+1}^{\infty} \delta^\tau u(c_\tau)$$

→ Time **in**consistent

- Two present-biased types
  - Fully Aware → **Sophisticated**
  - Unaware of changing preferences → **Naive**

→ Two features of present bias:

- Extent of short-run impatience ( $\beta$ )
- Sophistication

# ANALYSIS

1. Infer features of present bias from spending patterns



# ANALYSIS

1. Infer features of present bias from spending patterns
  - *Level* of short-run impatience
    - Sensitivity of consumption spending to paycheck receipt

# ANALYSIS

1. Infer features of present bias from spending patterns
  - *Level* of short-run impatience
    - Sensitivity of consumption spending to paycheck receipt
  - *Awareness* of future short-run impatience/sophistication
    - Effect of varying resources on spending patterns

# ANALYSIS

1. Infer features of present bias from spending patterns
  - *Level* of short-run impatience
    - Sensitivity of consumption spending to paycheck receipt
  - *Awareness* of future short-run impatience/sophistication
    - Effect of varying resources on spending patterns
2. Assess who sticks to plan of debt reduction

# ANALYSIS

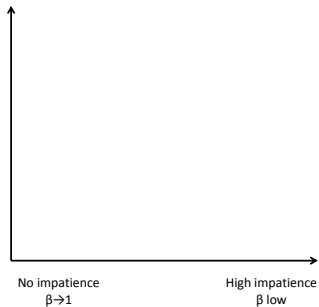
1. Infer features of present bias from spending patterns
  - *Level* of short-run impatience
    - Sensitivity of consumption spending to paycheck receipt
  - *Awareness* of future short-run impatience/sophistication
    - Effect of varying resources on spending patterns
2. Assess who sticks to plan of debt reduction
  - *Naive/Unaware of future present bias*:  
Repeatedly fail to pay down debt as planned

# ANALYSIS

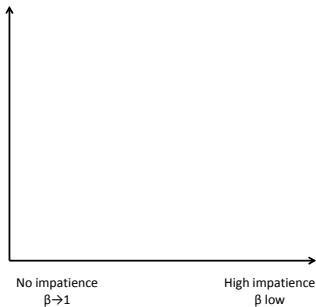
1. Infer features of present bias from spending patterns
  - *Level* of short-run impatience
    - Sensitivity of consumption spending to paycheck receipt
  - *Awareness* of future short-run impatience/sophistication
    - Effect of varying resources on spending patterns
2. Assess who sticks to plan of debt reduction
  - *Naive/Unaware of future present bias*:  
Repeatedly fail to pay down debt as planned
  - *Sophisticated*:  
Follow plan, but pay down less the more impatient

# EFFECT OF PRESENT BIAS - JOINT PATTERN

Sophisticated

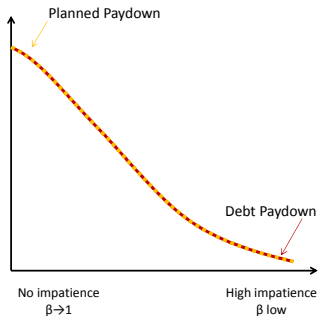


Naive

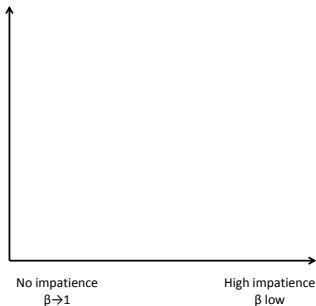


# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated



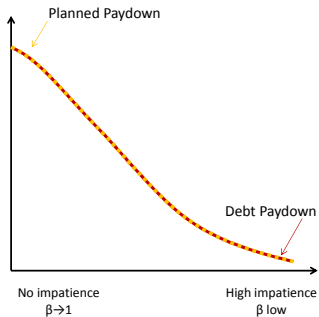
## Naive



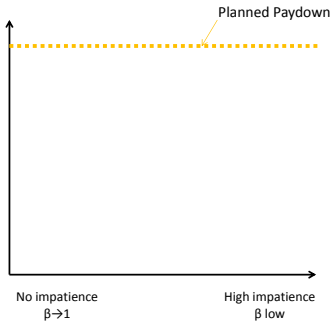
- *Sophisticated*:  
Follow plan to pay down  
Pay down less the more impatient

# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated



## Naive

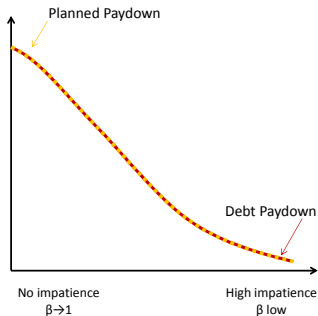


- *Naive:*

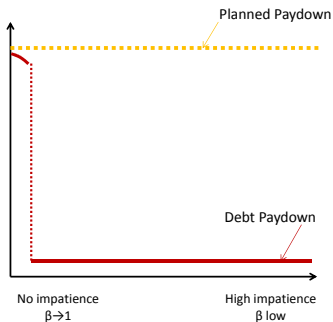


# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated



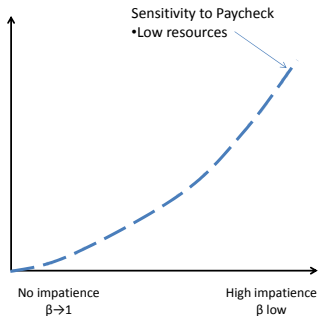
## Naive



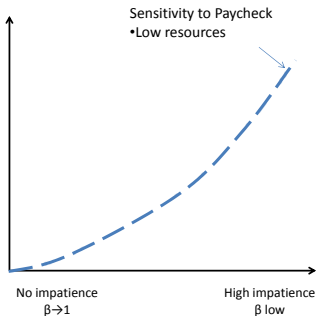
- *Naive*:  
Repeatedly plans to pay off next period

# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated

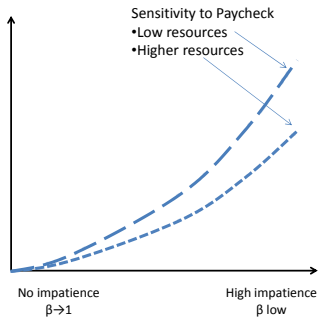


## Naive

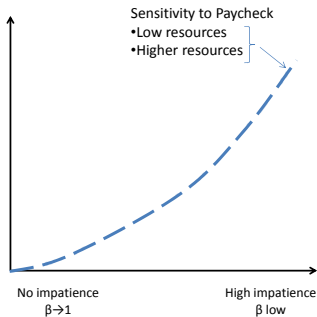


# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated

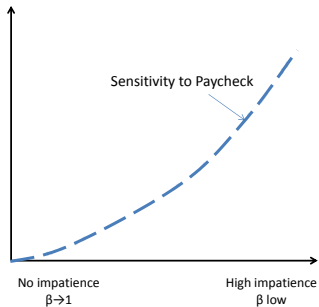


## Naive

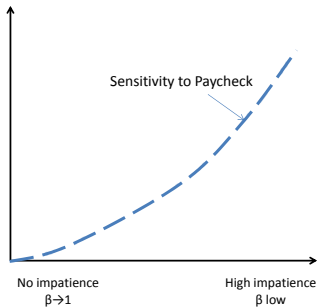


# EFFECT OF PRESENT BIAS - JOINT PATTERN

Sophisticated

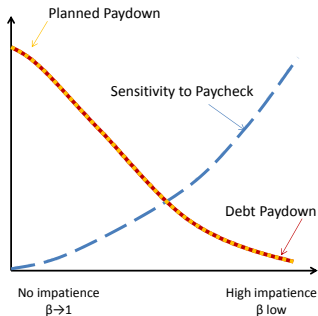


Naive

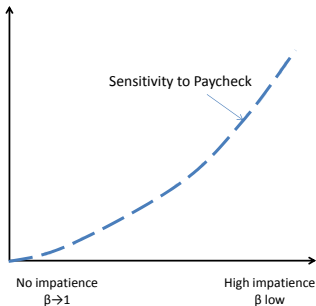


# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated



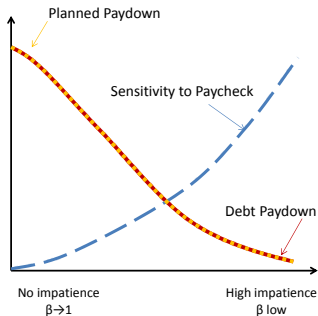
## Naive



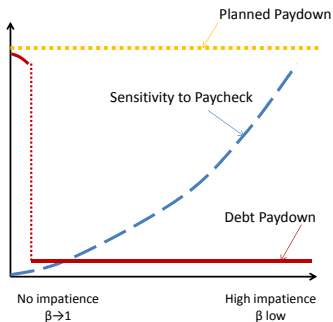
- *Sophisticated*:  
Pay down less the more impatient

# EFFECT OF PRESENT BIAS - JOINT PATTERN

## Sophisticated



## Naive



- *Sophisticated*:  
Pay down less the more impatient
- *Naive*:  
Delays irrespective of plans and impatience level

## REGRESSION RESULTS - DEBT PAYDOWN

$$\begin{aligned} \text{Paydown}_i &= \mu_0 + \text{Sensitivity}_i \mu_{1n} + \text{PlannedPaydown}_i \mu_{2n} \\ &\quad + \text{Sensitivity}_i * \text{Sophist}_i \mu_{1s} \\ &\quad + \text{PlannedPaydown}_i * \text{Sophist}_i \mu_{2s} \\ &\quad + X_i' \lambda + \nu_i \end{aligned}$$

# REGRESSION RESULTS - DEBT PAYDOWN

$$Paydown_i = \mu_0 + Sensitivity_i \mu_{1n} + PlannedPaydown_i \mu_{2n} + Sensitivity_i * Sophist_i \mu_{1s} + PlannedPaydown_i * Sophist_i \mu_{2s} + X_i' \lambda + \nu_i$$

	Paydown 90 Days		Paydown 180 Days	
	Short-run Consumables	Restaurant & Entertainment	Short-run Consumables	Restaurant & Entertainment
<b>Sensitivity</b>	<b>7.35</b> (0.12)	<b>-5.58</b> (0.28)	<b>5.10</b> (0.13)	<b>3.11</b> (0.42)
<b>Planned Paydown</b>	<b>0.14**</b> (0.02)	<b>0.14**</b> (0.04)	<b>0.07</b> (0.19)	<b>0.09</b> (0.10)
Sensitivity × Sophisticated	-20.41*** (0.00)	-7.32 (0.38)	-12.29*** (0.01)	-11.51** (0.02)
Planned Paydown × Sophisticated	0.21* (0.09)	0.17 (0.22)	0.23** (0.04)	0.27** (0.02)
Median Paycheck	2.47*** (0.00)	2.56*** (0.00)	0.92*** (0.00)	0.70*** (0.01)
Original Debt	0.09*** (0.00)	0.10*** (0.00)	0.09*** (0.00)	0.04 (0.17)
Sophisticated	-5.85 (0.12)	-4.78 (0.27)	-4.72 (0.12)	-5.81* (0.06)
Constant	-3.06 (0.10)	-3.70* (0.10)	-0.35 (0.81)	0.11 (0.94)
Nr of Individuals	556	510	556	510

P-values of bootstrapped standard errors in parentheses. Significance: \* (p<0.10), \*\* (p<0.05), \*\*\* (p<0.01).



# REGRESSION RESULTS - DEBT PAYDOWN

$$Paydown_i = \mu_0 + Sensitivity_i \mu_{1n} + PlannedPaydown_i \mu_{2n} + Sensitivity_i * Sophist_i \mu_{1s} + PlannedPaydown_i * Sophist_i \mu_{2s} + X_i' \lambda + \nu_i$$

	Paydown 90 Days		Paydown 180 Days	
	Short-run Consumables	Restaurant & Entertainment	Short-run Consumables	Restaurant & Entertainment
Sensitivity	7.35 (0.12)	-5.58 (0.28)	5.10 (0.13)	3.11 (0.42)
Planned Paydown	0.14** (0.02)	0.14** (0.04)	0.07 (0.19)	0.09 (0.10)
Sensitivity × Sophisticated	-20.41*** (0.00)	-7.32 (0.38)	-12.29*** (0.01)	-11.51** (0.02)
Planned Paydown × Sophisticated	0.21* (0.09)	0.17 (0.22)	0.23** (0.04)	0.27** (0.02)
Median Paycheck	2.47*** (0.00)	2.56*** (0.00)	0.92*** (0.00)	0.70*** (0.01)
Original Debt	0.09*** (0.00)	0.10*** (0.00)	0.09*** (0.00)	0.04 (0.17)
Sophisticated	-5.85 (0.12)	-4.78 (0.27)	-4.72 (0.12)	-5.81* (0.06)
Constant	-3.06 (0.10)	-3.70* (0.10)	-0.35 (0.81)	0.11 (0.94)
Nr of Individuals	556	510	556	510

P-values of bootstrapped standard errors in parentheses. Significance: \* (p<0.10), \*\* (p<0.05), \*\*\* (p<0.01).


# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting

# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting
- *Inconsistent* with alternative explanations:
  - Direct relation between reduction in sensitivity and paydown 



# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting
- *Inconsistent* with alternative explanations:
  - Direct relation between reduction in sensitivity and paydown ▶
  - Credit constraints: exclude when likely to be constrained ▶



# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting
- *Inconsistent* with alternative explanations:
  - Direct relation between reduction in sensitivity and paydown 
  - Credit constraints: exclude when likely to be constrained 
  - Habits, non-separabilities

# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting
- *Inconsistent* with alternative explanations:
  - Direct relation between reduction in sensitivity and paydown 
  - Credit constraints: exclude when likely to be constrained 
  - Habits, non-separabilities
  - Unrealistic expectations, overoptimism

# RESULTS

Patterns of debt paydown are

- *Consistent* with present bias/hyperbolic discounting
- *Inconsistent* with alternative explanations:
  - Direct relation between reduction in sensitivity and paydown ▶
  - Credit constraints: exclude when likely to be constrained ▶
  - Habits, non-separabilities
  - Unrealistic expectations, overoptimism
  - Impatient users drive difference btw sophisticated and naive ▶

## **Backup Slides**

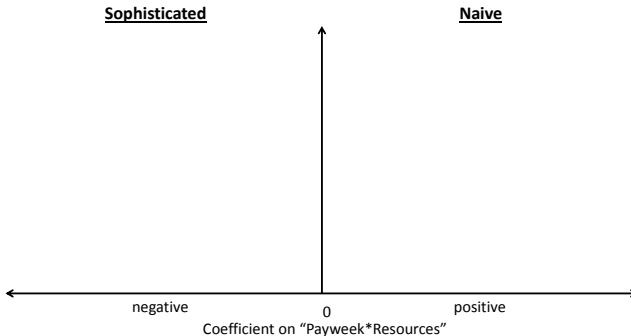


## CLASSIFICATION INTO SOPHISTICATED / NAIVE

- Classify based on effect of resources on sensitivity  
(coefficient on *payweek \* resources*)
- Higher reduction in sensitivity leads to lower paydown?

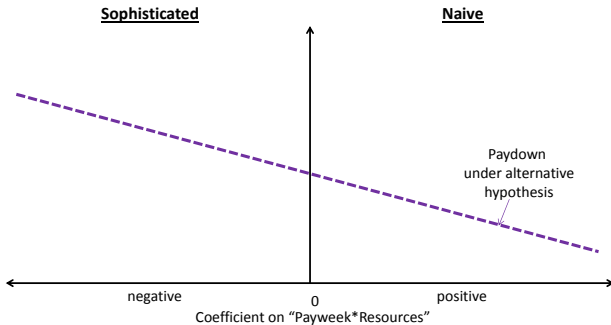
# CLASSIFICATION INTO SOPHISTICATED / NAIVE

- Classify based on effect of resources on sensitivity (coefficient on *payweek \* resources*)
- Higher reduction in sensitivity leads to lower paydown?



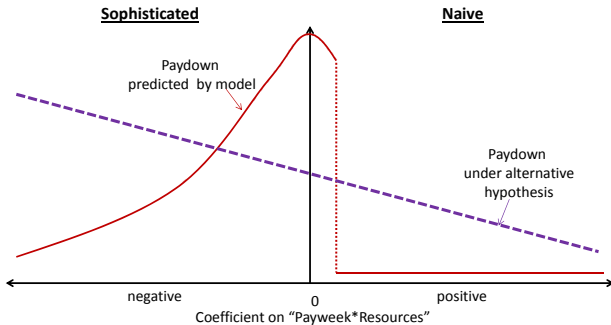
# CLASSIFICATION INTO SOPHISTICATED / NAIVE

- Classify based on effect of resources on sensitivity (coefficient on *payweek \* resources*)
- Higher reduction in sensitivity leads to lower paydown?



# CLASSIFICATION INTO SOPHISTICATED / NAIVE

- Classify based on effect of resources on sensitivity (coefficient on *payweek \* resources*)
- Higher reduction in sensitivity leads to lower paydown?



# CLASSIFICATION INTO SOPHISTICATED / NAIVE

$$\text{Paydown}_i = \mu_0 + (\text{coefficient\_on\_payweek} * \text{resources})\mu_1 + X_i'\lambda + \nu_i$$

	(1)	Paydown 90 Days		(4)	(5)	Paydown 180 Days		(8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>Short-run Consumables</b>								
Coefficient on	0.13	2.32	-0.03	2.03	-0.20	0.88	-0.31	0.66
Resources*Payweek	(0.83)	(0.08)	(0.96)	(0.13)	(0.67)	(0.25)	(0.52)	(0.39)
winsorized	1%	5%	1%	5%	1%	5%	1%	5%
Controls	.	.	✓	✓	.	.	✓	✓
N					556			
Mean of Regressor					-0.032			
75 <sup>th</sup> - 25 <sup>th</sup> pctile					0.43			

P-values in parentheses. Significance: \* ( $p < 0.10$ ), \*\* ( $p < 0.05$ ), \*\*\* ( $p < 0.01$ ).

▶ Back

# CREDIT CONSTRAINTS

Sensitivity caused by credit constraints?

- Estimation restricted to when spending of payweek affordable in non-payweek

# CREDIT CONSTRAINTS

Sensitivity caused by credit constraints?

- Estimation restricted to when spending of payweek affordable in non-payweek
  - Baseline: *Category spending* possible
  - Now: 1. *Total discretionary spending* possible
    - 2. *Category spending possible with buffer stock* (10<sup>th</sup> percentile of resources)

# TOTAL DISCRETIONARY SPENDING AFFORDABLE

$$\text{Paydown}_i = \mu_0 + \text{Sensitivity}_i \mu_{1n} + \text{PlannedPaydown}_i \mu_{2n} \\ + \text{Sensitivity}_i * \text{Sophist}_i \mu_{1s} + \text{PlannedPaydown}_i * \text{Sophist}_i \mu_{2s} + X_i' \lambda + \nu_i$$

	Paydown 90 Days		Paydown 180 Days	
	Short-run Consumables	Restaurant & Entertainment	Short-run Consumables	Restaurant & Entertainment
Sensitivity	7.053 (0.179)	-4.861 (0.388)	3.443 (0.324)	3.635 (0.288)
Planned Paydown	0.137* (0.055)	0.138** (0.047)	0.068 (0.328)	0.089 (0.114)
Sensitivity × Sophisticated	-21.645*** (0.008)	-7.184 (0.416)	-10.373** (0.047)	-12.067** (0.026)
Planned Paydown × Sophisticated	0.201 (0.102)	0.176 (0.239)	0.216* (0.071)	0.271** (0.032)
Sophisticated	-5.715 (0.229)	-5.225 (0.230)	-5.428 (0.132)	-6.283* (0.063)
Median Paycheck	✓	✓	✓	✓
Original Debt	✓	✓	✓	✓
Constant	✓	✓	✓	✓
Nr of Individuals	551	501	551	501

P-values of bootstrapped standard errors in parentheses. Significance: \* ( $p < 0.10$ ), \*\* ( $p < 0.05$ ), \*\*\* ( $p < 0.01$ ).



# SPENDING AFFORDABLE WITH BUFFER STOCK

$$\text{Paydown}_i = \mu_0 + \text{Sensitivity}_i \mu_{1n} + \text{PlannedPaydown}_i \mu_{2n} \\ + \text{Sensitivity}_i * \text{Sophist}_i \mu_{1s} + \text{PlannedPaydown}_i * \text{Sophist}_i \mu_{2s} + X_i' \lambda + \nu_i$$

	Paydown 90 Days		Paydown 180 Days	
	Short-run Consumables	Restaurant & Entertainment	Short-run Consumables	Restaurant & Entertainment
Sensitivity	-0.157 (0.974)	-13.095*** (0.009)	4.606 (0.156)	2.289 (0.527)
Planned Paydown	0.144** (0.031)	0.145** (0.047)	0.060 (0.309)	0.100 (0.127)
Sensitivity × Sophisticated	-3.684 (0.629)	11.056 (0.151)	-9.248* (0.071)	-8.057 (0.131)
Planned Paydown × Sophisticated	0.182 (0.173)	0.300** (0.049)	0.258** (0.027)	0.299** (0.028)
Sophisticated	-3.972 (0.362)	-6.586 (0.150)	-6.841** (0.037)	-7.116* (0.054)
Median Paycheck	✓	✓	✓	✓
Original Debt	✓	✓	✓	✓
Constant	✓	✓	✓	✓
Nr of Individuals	542	490	542	490

P-values of bootstrapped standard errors in parentheses. Significance: \* ( $p < 0.10$ ), \*\* ( $p < 0.05$ ), \*\*\* ( $p < 0.01$ ).

## EXCLUDING LOW SENSITIVITY

Classification into sophisticated/naive of low sensitivity users

- Not meaningful theoretically
- More likely to be potentially misclassified

## EXCLUDING LOW SENSITIVITY

Classification into sophisticated/naive of low sensitivity users

- Not meaningful theoretically
- More likely to be potentially misclassified

→ Exclude users with low estimated sensitivity/short-run impatience

# ROBUSTNESS: IMPATIENT USERS DRIVE RESULTS

$$Paydown_i = \mu_0 + Sensitivity_i \mu_{1n} + PlannedPaydown_i \mu_{2n} + Sensitivity_i * Sophist_i \mu_{1s} + PlannedPaydown_i * Sophist_i \mu_{2s} + X_i' \lambda + \nu_i$$

Estimates for Short-run Consumables							
	Baseline	Exclude lowest		Baseline	Exclude lowest		
		10%	20%		10%	20%	
		<b>90 Days</b>			<b>180 Days</b>		
Sensitivity	7.35 (0.12)	7.18 (0.15)	9.93** (0.04)	5.10 (0.13)	5.46 (0.11)	6.52** (0.05)	
Planned Paydown	0.14** (0.02)	0.14** (0.03)	0.19*** (0.01)	0.07 (0.19)	0.06 (0.26)	0.09 (0.19)	
Sensitivity × Sophisticated	-20.41*** (0.00)	-20.62*** (0.01)	-24.01*** (0.00)	-12.29*** (0.01)	-12.38** (-0.01)	-13.73*** (-0.01)	
Planned Paydown × Sophisticated	0.21* (0.09)	0.21* (0.09)	0.23 (0.14)	0.23** (0.04)	0.23** (0.04)	0.19 (0.17)	
Sophisticated	-5.85 (0.12)	-5.80 (0.15)	-3.97 (0.35)	-4.72 (0.12)	-4.48 (0.14)	-3.03 (0.38)	
<b>Controls</b>							
Median Paycheck	✓	✓	✓	✓	✓	✓	
Original Debt	✓	✓	✓	✓	✓	✓	
Constant	✓	✓	✓	✓	✓	✓	
Nr of Individuals	556	500	444	556	500	444	

P-values of bootstrapped standard errors in parentheses. Significance: \* ( $p < 0.10$ ), \*\* ( $p < 0.05$ ), \*\*\* ( $p < 0.01$ ).

# ROBUSTNESS: IMPATIENT USERS DRIVE RESULTS

$$Paydown_i = \mu_0 + Sensitivity_i \mu_{1n} + PlannedPaydown_i \mu_{2n} + Sensitivity_i * Sophist_i \mu_{1s} + PlannedPaydown_i * Sophist_i \mu_{2s} + X_i' \lambda + \nu_i$$

Estimates for Restaurant&Entertainment							
	Baseline	Exclude lowest		Baseline	Exclude lowest		
		10%	20%		10%	20%	
		<b>90 Days</b>			<b>180 Days</b>		
Sensitivity	-5.578 (0.276)	-5.367 (0.315)	-8.631 (0.114)	3.106 (0.416)	3.899 (0.294)	2.494 (0.529)	
Planned Paydown	0.142** (0.037)	0.151** (0.040)	0.098 (0.219)	0.090 (0.100)	0.115* (0.052)	0.081 (0.252)	
Sensitivity × Sophisticated	<b>-7.314</b> (0.377)	<b>-8.092</b> (0.336)	<b>-5.165</b> (0.543)	<b>-11.510**</b> (0.023)	<b>-12.603***</b> (-0.009)	<b>-11.246**</b> (-0.032)	
Planned Paydown × Sophisticated	<b>0.165</b> (0.219)	<b>0.182</b> (0.203)	<b>0.244*</b> (0.097)	<b>0.268**</b> (0.024)	<b>0.269**</b> (0.034)	<b>0.320**</b> (0.031)	
Sophisticated	-4.783 (0.265)	-4.912 (0.274)	-7.962* (0.062)	-5.814* (0.064)	-6.105* (0.071)	-8.489** (0.026)	
<b>Controls</b>							
Median paycheck	✓	✓	✓	✓	✓	✓	
Original debt	✓	✓	✓	✓	✓	✓	
Constant	✓	✓	✓	✓	✓	✓	
Nr of individuals	510	459	408	510	459	408	

P-values of bootstrapped standard errors in parentheses. Significance: \* ( $p < 0.10$ ), \*\* ( $p < 0.05$ ), \*\*\* ( $p < 0.01$ ).

# ROBUSTNESS: IMPATIENT USERS DRIVE RESULTS

▶ Back

## RELATED LITERATURE

- Theoretical models of present bias
  - Laibson (1997), Laibson, Repetto, Tobacman (2003), O'Donoghue, Rabin (1999), Heidhues, Kőszegi (2010)

## RELATED LITERATURE

- Theoretical models of present bias
  - Laibson (1997), Laibson, Repetto, Tobacman (2003), O'Donoghue, Rabin (1999), Heidhues, Köszegi (2010)
- Empirical evidence of present bias
  - *Consumer debt*: Meier, Sprenger (2010), Shui, Ausubel (2005), Skiba, Tobacman (2008), Ashraf, Karlan, Yin (2006), Bertrand, Morse (2011)
  - *Other areas*: DellaVigna, Malmendier (2006), Ariely, Wertenbroch (2002), Paserman (2008), Fang, Wang (2010), Choi et al. (2001)



## RELATED LITERATURE

- Theoretical models of present bias
  - Laibson (1997), Laibson, Repetto, Tobacman (2003), O'Donoghue, Rabin (1999), Heidhues, Köszegi (2010)
- Empirical evidence of present bias
  - *Consumer debt*: Meier, Sprenger (2010), Shui, Ausubel (2005), Skiba, Tobacman (2008), Ashraf, Karlan, Yin (2006), Bertrand, Morse (2011)
  - *Other areas*: DellaVigna, Malmendier (2006), Ariely, Wertenbroch (2002), Paserman (2008), Fang, Wang (2010), Choi et al. (2001)

**This paper: Field data, explicitly measure sophistication**

## RELATED LITERATURE

- Theoretical models of present bias
  - Laibson (1997), Laibson, Repetto, Tobacman (2003), O'Donoghue, Rabin (1999), Heidhues, Köszegi (2010)
- Empirical evidence of present bias
  - *Consumer debt*: Meier, Sprenger (2010), Shui, Ausubel (2005), Skiba, Tobacman (2008), Ashraf, Karlan, Yin (2006), Bertrand, Morse (2011)
  - *Other areas*: DellaVigna, Malmendier (2006), Ariely, Wertenbroch (2002), Paserman (2008), Fang, Wang (2010), Choi et al. (2001)

**This paper: Field data, explicitly measure sophistication**

- Sensitivity to paycheck receipt
  - Shapiro (2005), Stephens (2006), Hastings, Washington (2010), Kaur, Kremer, Mullainathan (2010), Van Wesep, Parsons (2012)

**This paper: Sensitivity as proxy for present bias**

# DATA

Users of a website to help manage and pay down credit card debt  
([www.readyforzero.com](http://www.readyforzero.com))

# DATA

Users of a website to help manage and pay down credit card debt  
([www.readyforzero.com](http://www.readyforzero.com))

Information on:

- Balance, credit limit, available credit of accounts
- Transaction level data for checking and credit card
- Incoming payments, including paycheck
- Amount planned to pay down each month at signup

# DATA

Users of a website to help manage and pay down credit card debt  
([www.readyforzero.com](http://www.readyforzero.com))

Information on:

- Balance, credit limit, available credit of accounts
- Transaction level data for checking and credit card
- Incoming payments, including paycheck
- Amount planned to pay down each month at signup

Include users in sample if:

- Linked checking account
- Regular, bi-weekly paychecks
- Data on all linked accounts available from signup till 180 days

# SUMMARY STATISTICS

---

---

	N	Mean	p25	p50	p75
<b>Users</b>					
Days in sample	556	471	339	442	619
Days in sample after sign-up		399	252	354	562
<b>Income</b>					
Avg. monthly income	556	3,913	2,607	3,526	4,669
<b>Assets</b>					
Credit Card Debt - \$	556	15,204	4,962	10,669	19,303
Credit Card Debt - rel. to income		4.52	1.46	3.03	5.10
Cash Balances - \$		3,954	637	1,812	4,452
Total Credit - \$		27,111	9,750	19,875	34,625
Available Credit - \$		11,907	1,776	5,697	16,250
<b>Debt Paydown</b>					
Change in Debt - 90 days - \$	556	-736	-1,332	-234	363
Change in Debt - 90 days - %		0.03	-0.14	-0.02	0.04
Planned Paydown - 90 days - \$		2,747	1,121	1,947	3,484

---

---