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## Aging, self-regulation, and cognitive success

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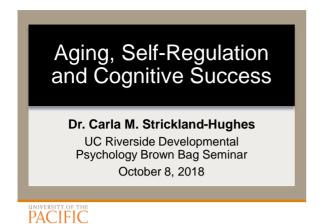


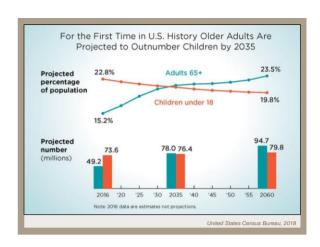
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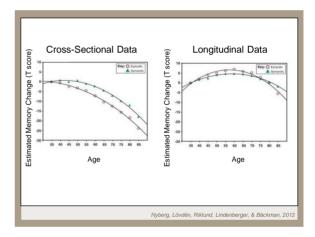
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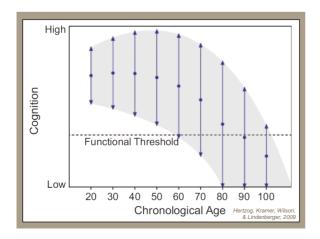
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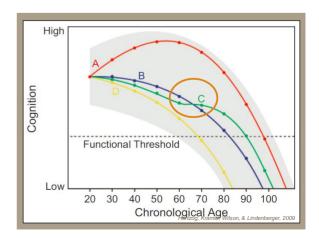


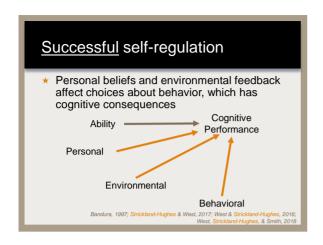






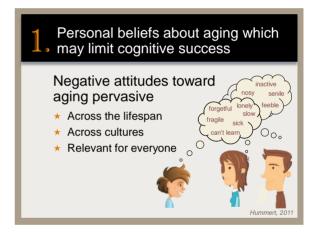






## 1. Personal beliefs about aging which may limit cognitive success 2. Self-regulatory factors that promote cognitive success 3. Ways to enhance everyday memory through training





Personal beliefs about aging which may limit cognitive success

Attitudes influence behavior (which influences attitudes of others)

\* Ageism

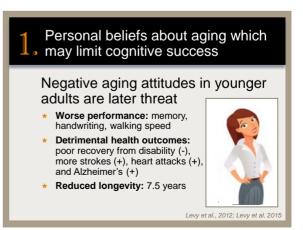
• Prejudice

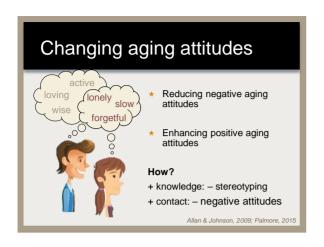
• Discrimination

\* 77% older adults experienced ageism

Negative Attitudes

Hess, 2006; Nelson, 2004





## Research questions

## Age Stereotypes and Knowledge (ASK) Study

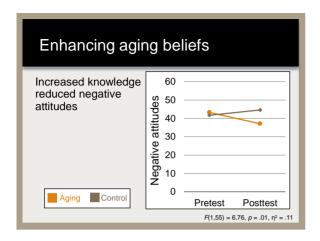
- How is ageism related to aging beliefs and experience in younger adults?
- $\sum_{\rm o}$  Are aging beliefs more positive with increased aging knowledge?

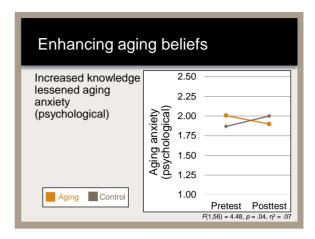
# \* Online surveys \* 2 time points in 15-week-long semester • First week (pretest) • Last week (posttest) \* 2 groups: Aging Class Aging Class Aging Class Aging Class Aging Class Aging Control Class Aging Class Aging

### Psychology of Aging **Objectives Format** Normative aging ⋆Didactic instruction and in-class activities Multidirectional ★Student presentations Multidimensional ★Examinations Multiple influences ★Comprehensive essays ★ Age ≠ bad ★Interaction with older Aging doesn't begin adults when you're old ⋆Death over Dinner

## 

## Lower ageism explained by More frequent quality contact, β = -.25, p < .05</li> More positive face ratings, β = -.26, p < .05</li> Elevated positive attitudes, β = -.27, p < .05</li> Less aging anxiety, β = .39, p < .05</li> Aging anxiety relatively most important Negative attitudes not important, β = .10, p > .05 Explained 51% variance in ageism





## Formal education can enhance aging attitudes! \* Quality contact with older persons not enough \* Aging anxiety important target \* Positive vs. negative attitudes \* Replication: Data analysis underway • Increased intergenerational contract • Emphasized control overall aging • Smaller, but more diverse, sample

# 1. Personal beliefs about aging which may limit cognitive success 2. Self-regulatory factors that promote cognitive success 3. Ways to enhance everyday memory through training

2 Self-regulatory factors and cognitive success

★ Targeted self-regulatory factors

• Goal-setting & feedback

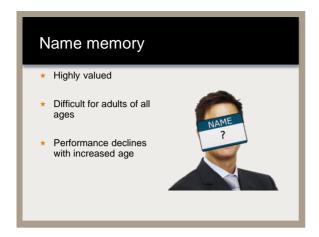
• Self-evaluative beliefs

• Future expectations

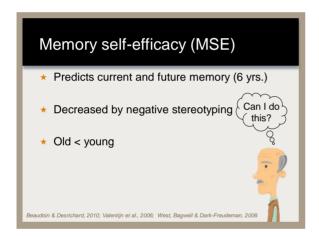
★ Positive correlates of memory

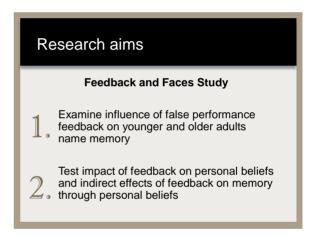
★ Decline with increased age





## Feedback and memory ★ Mixed effects reported ◆ Complex interaction with personal beliefs ★ More influential for younger than older adults ★ Positive feedback may be motivating ◆ Especially with high memory self-efficacy





Design and procedure

Mixed-model design

• 2 age (between: YA, OA)

• 3 feedback conditions (between: P, N, C)

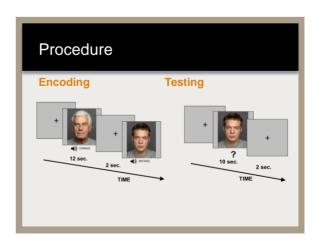
• 2 name memory (within: recognition, recall)

Outcomes

★ Memory task with feedback

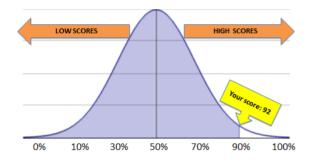
★ Personal beliefs assessed before and after

YA = Younger adults, OA = Older adults, P = Positive, N = Negative, C = Control



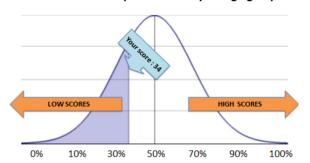
## Congratulations!

Your Score: 92th percentile for your age group



Thank you.

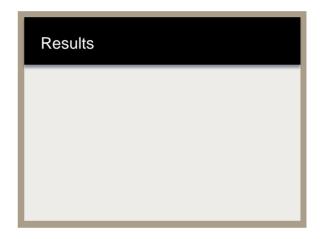
Your Score: 34th percentile for your age group

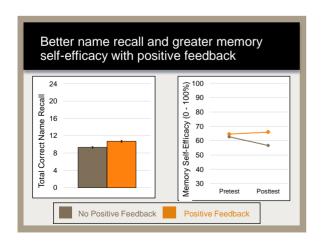


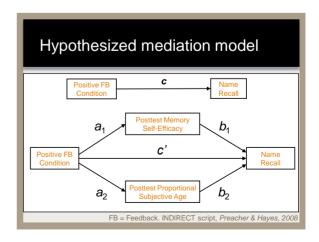


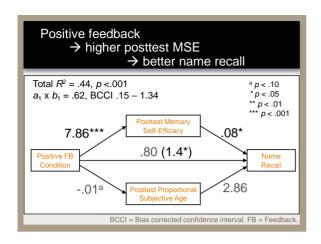
## Thank you!

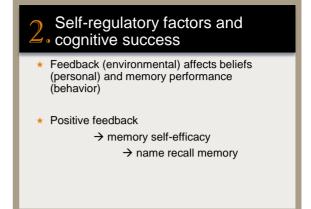
Please wait for the assistant to load the next block of trials.









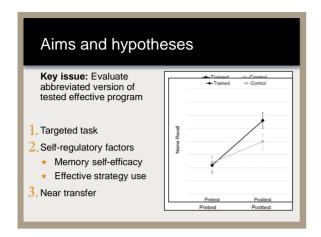


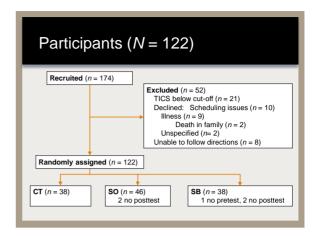
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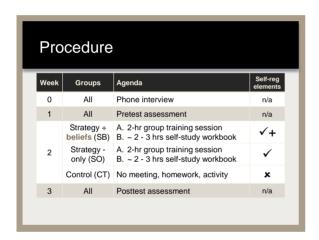


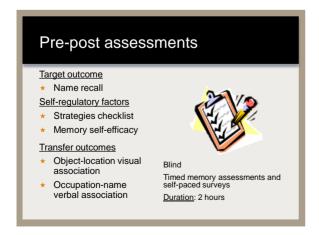


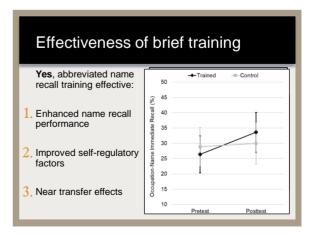












## <u>Brief</u> training effective <u>beyond</u> target task

- 1. Enhanced self-regulatory factors
  - · Key to maximizing training impact
- 2. Near transfer effects
  - · Contradicts "generalist assumption"
- \* "Bang for buck"
- ★ Ease of broad dissemination
- Possible translation of benefits from laboratory to everyday life

## Aging, self-regulation, and cognitive success

- 1. Personal beliefs about aging which may limit cognitive success
- Self-regulatory factors that promote cognitive success
- 3. Ways to enhance everyday memory through training

# Aging, self-regulation, and cognitive success ★ Personal beliefs and environmental feedback affect choices about behavior, which has cognitive consequences Ability Cognitive Performance Personal Behavioral Behavioral Behavioral Behavioral Besidera, 1997: Strickland-Hughes & West, in press; West & Strickland-Hughes, 2016; West, Strickland-Hughes, & Smith, under revision

