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Recommended Citation

Strickland-Hughes, C. M., West, R. L., & Ebner, N. C. (2015). Aging and stereotyping effects on face-name memory. Paper presented at Student Research on Aging Exposition and Awards for the Institute of Learning in Retirement at Oak Hammock in Gainesville, FL. https://scholarlycommons.pacific.edu/cop-facpres/972

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Aging and Stereotyping Effects on Face-Name Memory

Carla M. Strickland-Hughes

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Introduction

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Stereotyping affects memory

- →Self-stereotyping and stereotype threat
 - Automatic
 - · Self-relevant
 - · Important ability
- →Attitudes towards aging pervasively negative
 - · Especially memory
 - · Belief in inevitable memory decline with age
 - · Value memory & fear memory loss
- → Older adults vulnerable to memory stereotyping
 - · Beliefs may moderate stereotyping effects

Chasteen, Kang, & Remedios, 2012; Dark-Freudeman, West, & Viverito, 2006; Hess, Emery, & Queen, 2009; Hess, Hinson, & Hodges, 2008; Hummert, 2011; Lineweaver, Berger, & Hertzog, 2008; Popham & Hess, 2013

Feedback and memory

- →Mixed effects reported
 - · Complex interaction with beliefs
- →More influential for younger than older adults
- →Positive feedback may be motivating
 - · Especially with high memory self-efficacy
- →Unknown effect of negative feedback

UF

Levy, 1996; West, Dark-Freudeman, & Bagwell, 200 Vest, Fbner, & Hastings, 2013; West, Welch, & Thorn, 200

Memory self-efficacy

- →Confidence in memory performance
- →Correlated with memory performance
 - Meta-analysis *r* = .15, 95% CI: .13 .17
- →Predicts memory performance
 - · Longitudinally, 6 years later
 - Training self-efficacy improves memory
- →Decreased by negative self-stereotyping
- →Moderates self-stereotyping and feedback effects

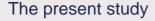
Bandura, 1997; Beaudoin & Desrichard, 2011; Desrichard & Köpetz, 2005

The present study

- →Extends previous research on self-stereotyping in domain of aging and memory
 - Performance feedback as mechanism for self-stereotyping effects
 - Role of personal beliefs in explaining responses to feedback

THE

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- →Positive, negative, and no feedback conditions
- →Name memory outcome, relevant & challenging



HE

Methods

Participants

- →Extreme groups design
- →95 younger adults
- 18 27 years old
- M = 19.2, SD = 1.3
- 72.6% female
- →83 older adults
 - 68+ years old
 - M = 73.8, SD = 3.9
 - 72.3% female

UF

Overall design

Mixed-model design

- 2 age (between: YA, OA)
- · 3 feedback conditions (between: P, N, C)
- 2 name memory (within: recognition, recall)

Phone screening

Onsite interview

30 - 45 min. 1.5 - 2 hrs.

Health & demographics Face Name A

Baseline cognition

Face Name Association Task

Beliefs measures

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

Onsite interview procedure

Informed Consent
Vision Testing
FNA Task Practice Block
Pretest Beliefs
FNA Task
Posttest Beliefs
Manipulation Check Surveys

Interactive Debriefing

Payment

4 Blocks: Encoding, Testing, Feedback Each block:

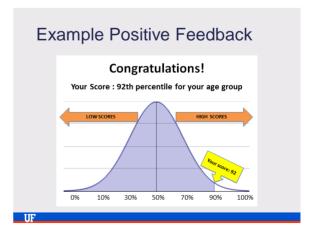
- 12 face-name pair
- Same gender, different ages
- Counterbalanced presentation orders

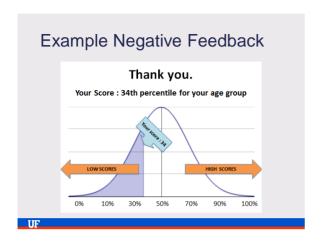
Feedback: 5 total

- 15 seconds
- Accumulative
- Positive, negative, no feedback

FNA = Fac

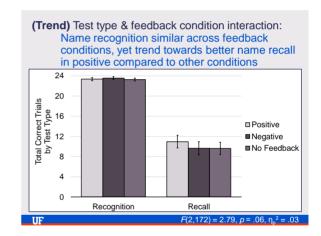
Face Name Association Task ENCODING 12 face-name pairs NAME RECALL 6 trials RECOGNITION 6 trials 10 sec. 2 sec. TIME TIF

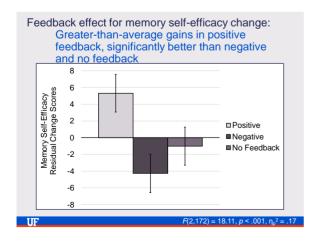


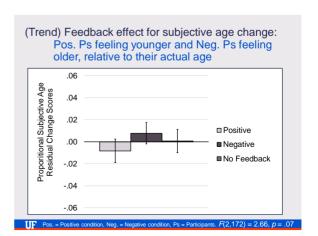












Test type & positive feedback condition interaction: Better performance for positive than no positive for name recall but comparable performance between groups for name recognition 22 20 18 Total Correct Name Recall Trials 16 ■ Positive 14 Feedback 12 ■ No Positive 10 Feedback 8 2

Hypothesized model: Indirect effects of positive FB on name recall through memory self-efficacy and subjective age

Positive FB
Condition

Indirect effect of positive feedback on name recall through memory self-efficacy: Pos. FB → higher posttest MSE → better name recall Total $R^2 = .44$, p < .001 $a_1 \times b_1 = .62$, BCCI .15 – 1.34 Posttest Memory Self-Efficacy 7 86** .08* .80 (1.4*) Positive FB Name Condition Posttest Proportional 2.86 -.01 Subjective Age a p < .10, *p < .05,** p < .01, *** p < .001

Discussion

Feedback and memory

- →Better name recall with *positive feedback* compared to *no positive feedback*
 - Similar performance between negative feedback and no feedback
- →Positive benefit of positive feedback
 - · Via motivation, encouraging continued effort
 - · Protection from negative self-appraisal
 - Comparable low memory evaluations in negative and no feedback conditions

UF West et al., 200

Feedback and beliefs

- →Positive feedback improved memory self-efficacy
 - · Greater-than-average gains
 - Sustained pretest to posttest, compared to decline in negative feedback condition
- →Feeling younger relative to one's own age when receiving positive feedback

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Conclusion & Future Directions

- →Feedback impacts performance & beliefs
 - · Similar effects in younger and older adults

Positive FB → Increased self-efficacy → Better name recall

- →Negative self-appraisal?
- →Training beliefs to promote resilience to stereotype threat effects

Acknowledgements

Thank you, research volunteers!

- →Social Cognitive and Affective Development Lab
- →Aging and Development Lab
- →Supervising Committee
 - Natalie C. Ebner
 - James Shepperd Robin West
- →Jay & Michael Hughes, Kim Smith, Jordan Van Hall, Claudia
- →Research Assistants
 - Jessica Alpizar
 - Nick Christodoulides
 - · Matt Conway
- Vicki DeJaco

- →Research Assistants, cont.

 - Devarshi Desai
 Katie Dillon
 Danielle Dreher
 - Donovan Ellis
 - Samantha Janvier
 - Vlad Korenbilt
 - Ivette Lopez
 - Adam Mann
 - Rachel Metras
 - Nick O'Connor
 - · Lindsay Patenaude
 - Ram Peesapati
 - Nicole Perez
 Amber Schaefer