DEVELOPMENTAL ENVIRONMENTS, COGNITIONS, AND SOCIAL COMPARISON REACTIONS: THE IMPACT OF CHILDHOOD EXPERIENCES ON THOUGHTS AND BELIEFS University of Regina Amanda Wuth¹, Sandeep Mishra², Shadi Beshai¹, & Justin Feeney²

BACKGROUND

- According to life history theory, energy resources are differentially allocated to maximize survival within a specific environment^{3,4}
- Poor developmental environments promote fast life history strategies⁵
- Fast life history strategies have been proposed to promote dysfunctional behaviors and psychopathologies ^{6, 7, 8}
- Early maladaptive schemas are fixed dysfunctional cognitions maintained over the lifespan⁹
- Many dysfunctional cognitions involve perceptual distortions of one's self relative to others
- \circ The absence of positive schemas is associated with psychopathologies¹⁰
- Positive schemas may protect against dysfunctional cognitions

(I) Are social comparison reactions associated with developmental environments and dysfunctional cognitions? (2) Do schemas explain unique variance in cognitive distortions and socioemotional comparisons?

(3) Are these variables causally linked?

METHODS

Participants

 \circ Participants were 140 M, 105 F (age: M = 38.7, SD = 12.6), recruited from the crowdsourcing platform Turk Prime (n = 245)

Measures

Developmental Environments

- Retrospective Family Unpredictability Scale (RFUS)
- Adverse Childhood Experiences (ACE)
- Mini K: 20-item measure of behavioral and cognitive indicators of life history strategies

Cognitions

- Young Schema Questionnaire S3 (YSQ): 90-item measure of maladaptive schemas
- Positive Schema Questionnaire (PSQ)
- Cognitive Distortions Scale (CDS)

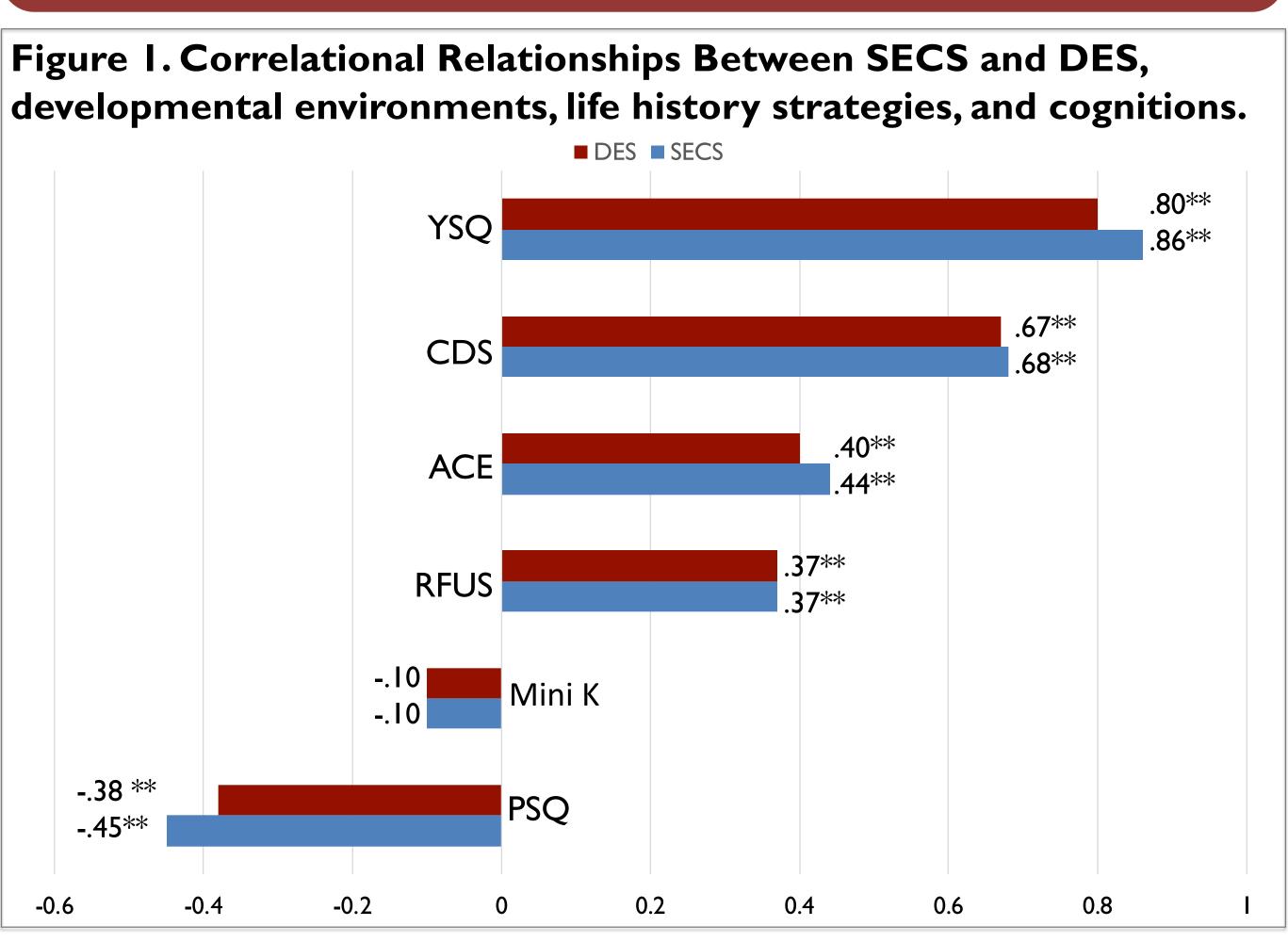
Social Comparison Reactions

- Socioemotional Comparisons Scale (SECS)
- Dispositional Envy Scale (DES)

Structural Equation Modeling (Stata/IC 15.1 for Mac) • Model estimation using maximum likelihood with missing values

CORRELATIONS

Socioemotional comparison reactions are moderately to strongly associated with developmental environments and cognitions, but not life history strategies.



** = p < .01. SECS = socioemotional comparison scale. DES = dispositional envy scale. YSQ = young schema questionnaire. CDS = cognitive distortions scale. ACE = adverse childhood experiences. RFUS = retrospective family unpredictability scale. Mini K = Mini K life history strategies. PSQ = positive schema questionnaire.

MULTIPLE REGRESSION

Developmental environments and maladaptive schemas explain a significant and large amount of variance in cognitive distortions.

Table 2. Predictive power of maladaptive schemas on CDS scores

Step I Demographics: $R^2 = .07^*$

Step 2 – Developmental Environments:

RFUS

ACE

Step 3 – Maladaptive Schemas: $R^2 = .53$

YSQ

* = p < .05, ** = p < .01, *** = p < .001. CDS = cognitive distortions scale. Demographics: age, sex, relationship status, education, personal income, household income. RFUS = retrospective family unpredictability scale. ACE = adverse childhood experiences. YSQ: young schema questionnaire.

- 6. Del Giudice, Gangestad, & Kaplan (2015) The Handbook of Evolutionary Psychology-Vol 1: Foundations 7. Figueredo et al. (2006) Developmental Review
- 8. Del Giudice (2014) Psychological Inquiry

	B	SE	в	t				
$R^2 = .23 \Delta R^2 = .20^{***}$								
	.40	.11	.23	3.47**				
	1.67	.39	.28	4.28***				
$\Delta R^2 = 30^{***}$								
	.22	.02	.67	. 5***				

Maladaptive schemas and cognitive distortions explain a significant and large amount of variance in social comparison reactions. Positive schemas also explain additional variance.

SECS scores

Step I Demographics:

Step 2 – Dysfunctional

YSQ

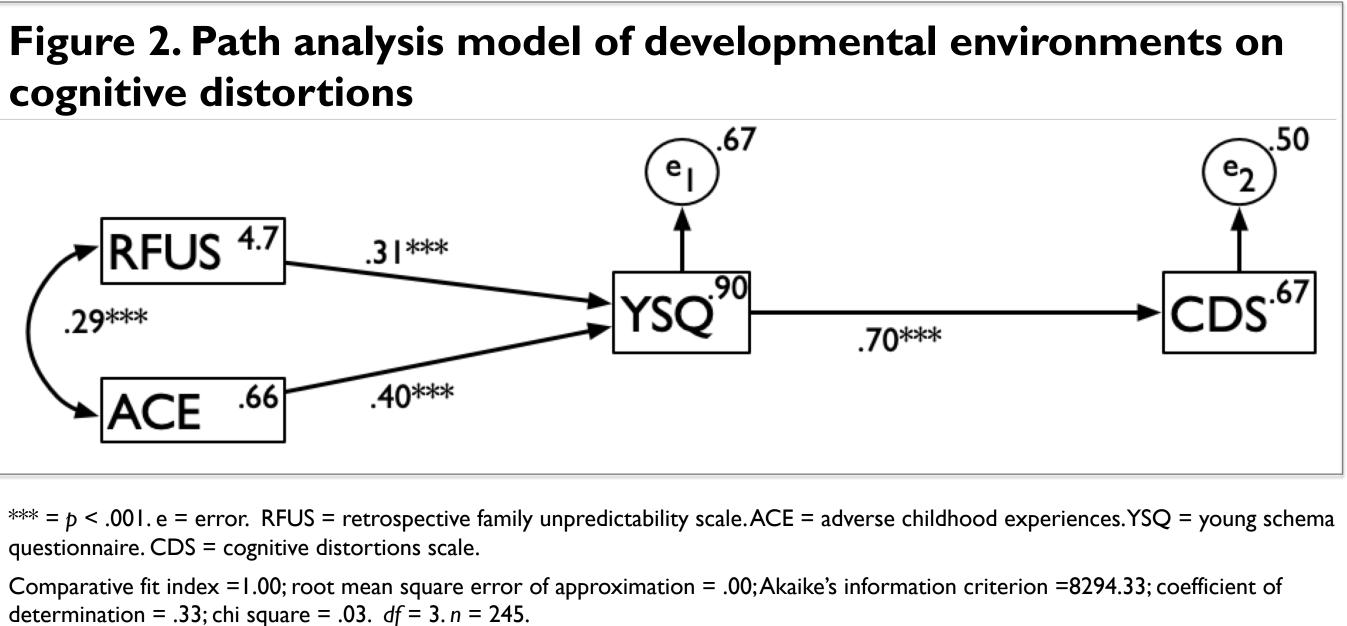
CDS

Step 3 – Positive Cogni

PSQ

* = p < .05, *** = p < .001; SECS = socioemotional comparison scale. Demographics: age, sex, relationship status, education, personal income, household income. YSQ = young schema questionnaire. CDS = cognitive distortions scale. PSQ = positive schema questionnaire.

Poorer development environments predict propensity for maladaptive schemas and cognitive distortions.



Socioemotional comparisons and maladaptive schemas may share an underlying factor. People who are exposed to harsh developmental environments are more likely to develop maladaptive schemas and cognitive distortions. Dysfunctional cognitions are powerful predictors of social comparison reactions.

9. Young, Klosko, & Weishaar (2003). Schema Therapy: A practitioner's guide. 10. Keyfitz, Lumley, Hennig & Dozois (2013) Cognitive Therapy and Research

MULTIPLE REGRESSION

Table 3. Predictive power of positive and negative cognitions on

	B	SE	В	t				
$R^2 = .07^*$								
Cognitions: $R^2 = .76 \Delta R^2 = .69^{***}$								
	.14	.01	.74	15.81***				
	.09	.03	.16	3.43***				
itions: $R^2 = .76 \Delta R^2 = .01 *$								
	08	.03	10	-2.61*				

PATH ANALYSIS

