

COLORADO COLLEGE

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No Through Traffic or U-Turns





Kinney Gaylord

STONE ARTS CENTER

825





ER TEAM:
90-5 EVENTS
1-1 EVENT
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**Exploration of the Fundamental Dimensions of Social Perception
in the Legal Domain**

Cobun Keegan

The Colorado College, Colorado Springs, CO

Introduction

Abstract: This research explores the dimensions of social perception in the legal domain. Specifically, it examines how individuals perceive the social context of legal situations, such as courtroom interactions and legal documents. The study uses a mixed-methods approach, combining surveys and interviews to identify the key dimensions of social perception in law.

Results

Figure 1: Dimension of Social Perception

Dimension	Score
Attitudes	High
Perception	Medium-High
Behavior	Medium-Low
Environment	Low

Figure 2: Willingness to Work in Different Legal Situations

Situation	Willingness
Workplace	Very High
Home	High
School	Medium
Community	Low

Methodology

Methodology: This research used a mixed-methods approach, combining surveys and interviews. Surveys were used to collect quantitative data on the dimensions of social perception in law. Interviews were used to gain qualitative insights into the perceptions of legal professionals. The study involved 100 participants, mostly law students and legal professionals, from various backgrounds and legal specialties.

Conclusion

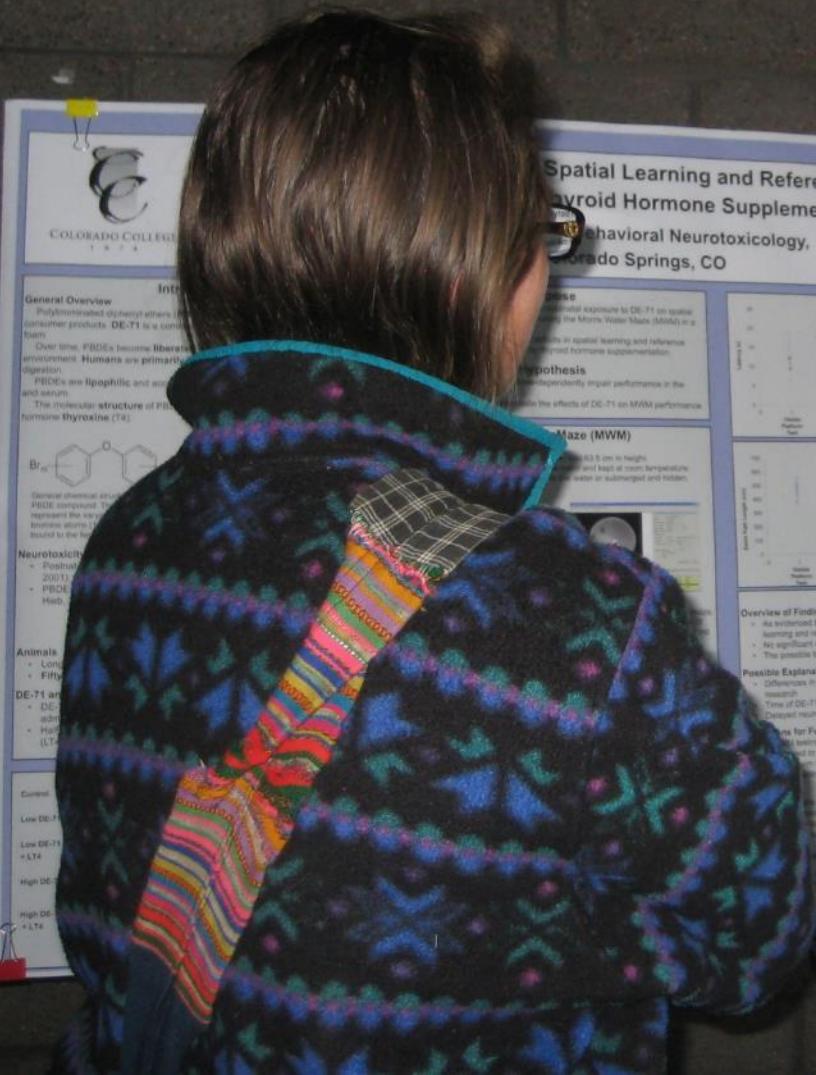
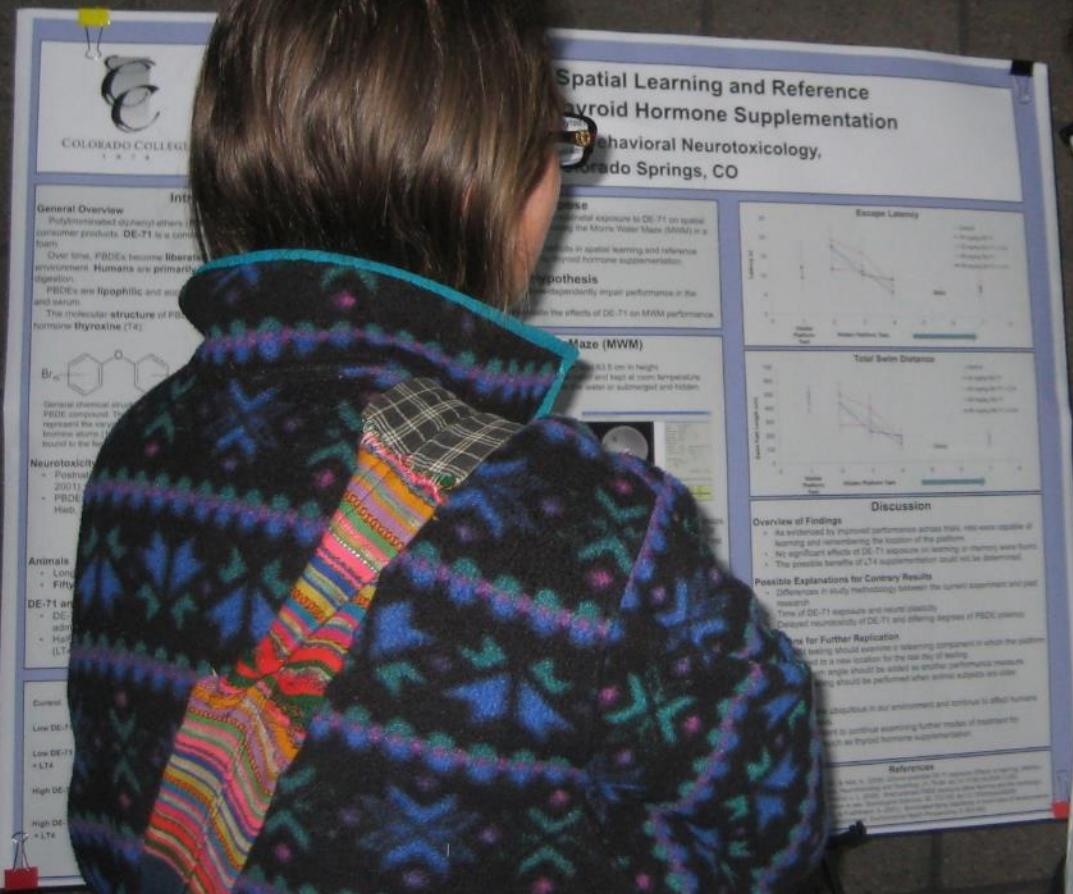
Conclusion: This research has identified several dimensions of social perception in the legal domain. These dimensions include attitudes, perception, behavior, and environment. The results suggest that legal professionals have a high level of social perception, particularly in terms of their attitudes towards their work. The findings also indicate that legal professionals are willing to work in a variety of settings, with the workplace being the most preferred.

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FIGURE 8. Photomicrographs of Gossypium *hirsutum* L. roots at various developmental stages (A–D) showing patterns become more complex as root system develops. (E) higher magnification of portion of primary segment, early mature (H), harvested January 29, 1968. Bar = 5.0 μ . H, D, E, F, G, I are double-blind slides.







Exploration of the Fundamental Dimensions of Society
in the Legal Domain

Cobun Keegan
The Colorado College, Colorado Springs, CO

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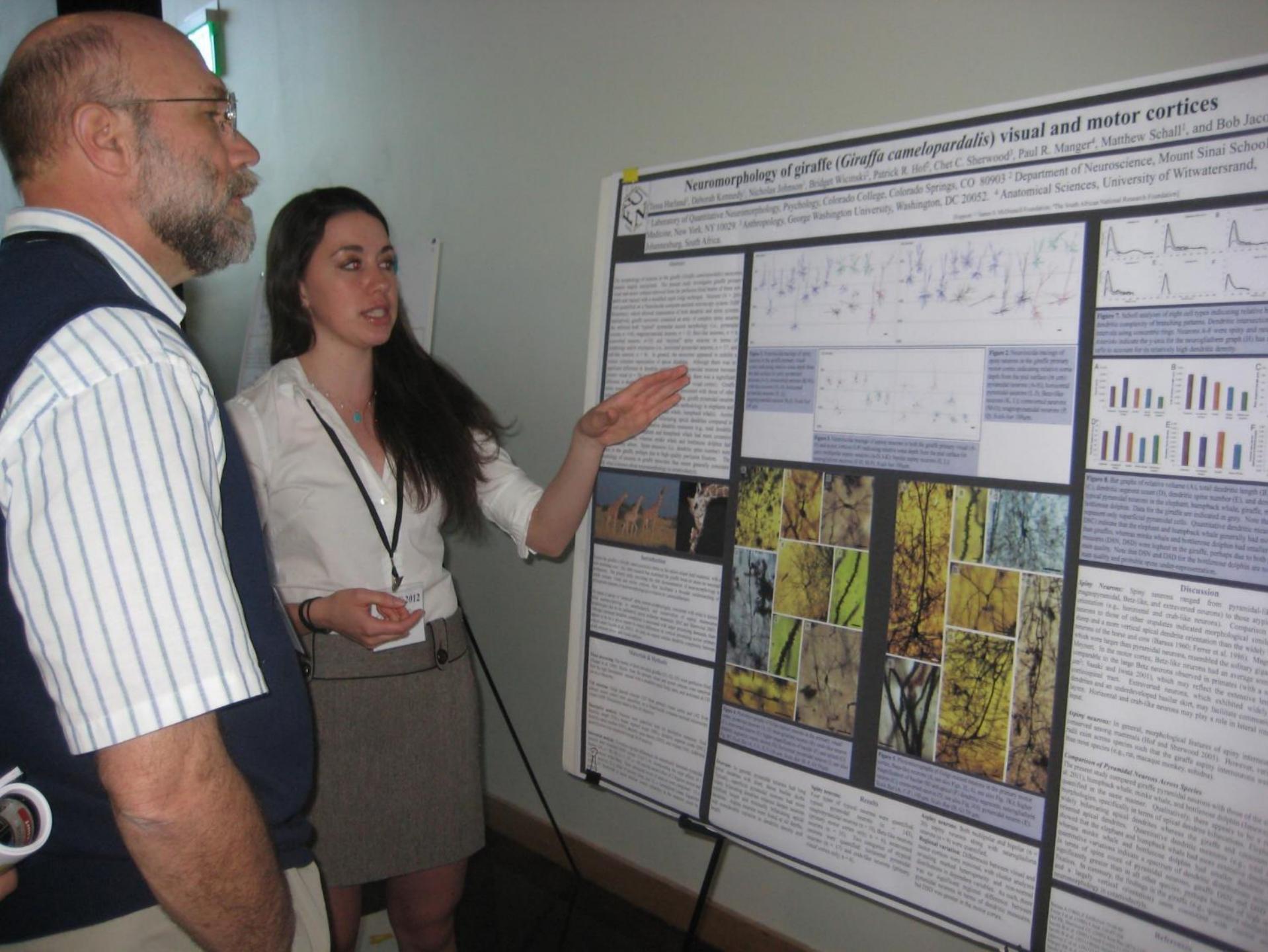
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ANSWER

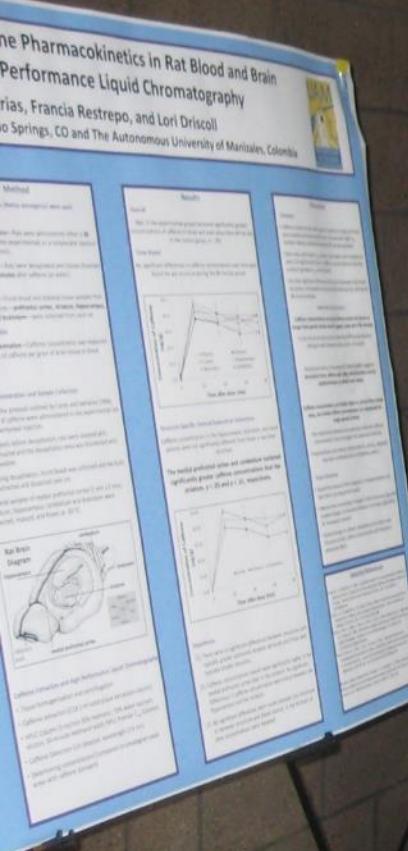
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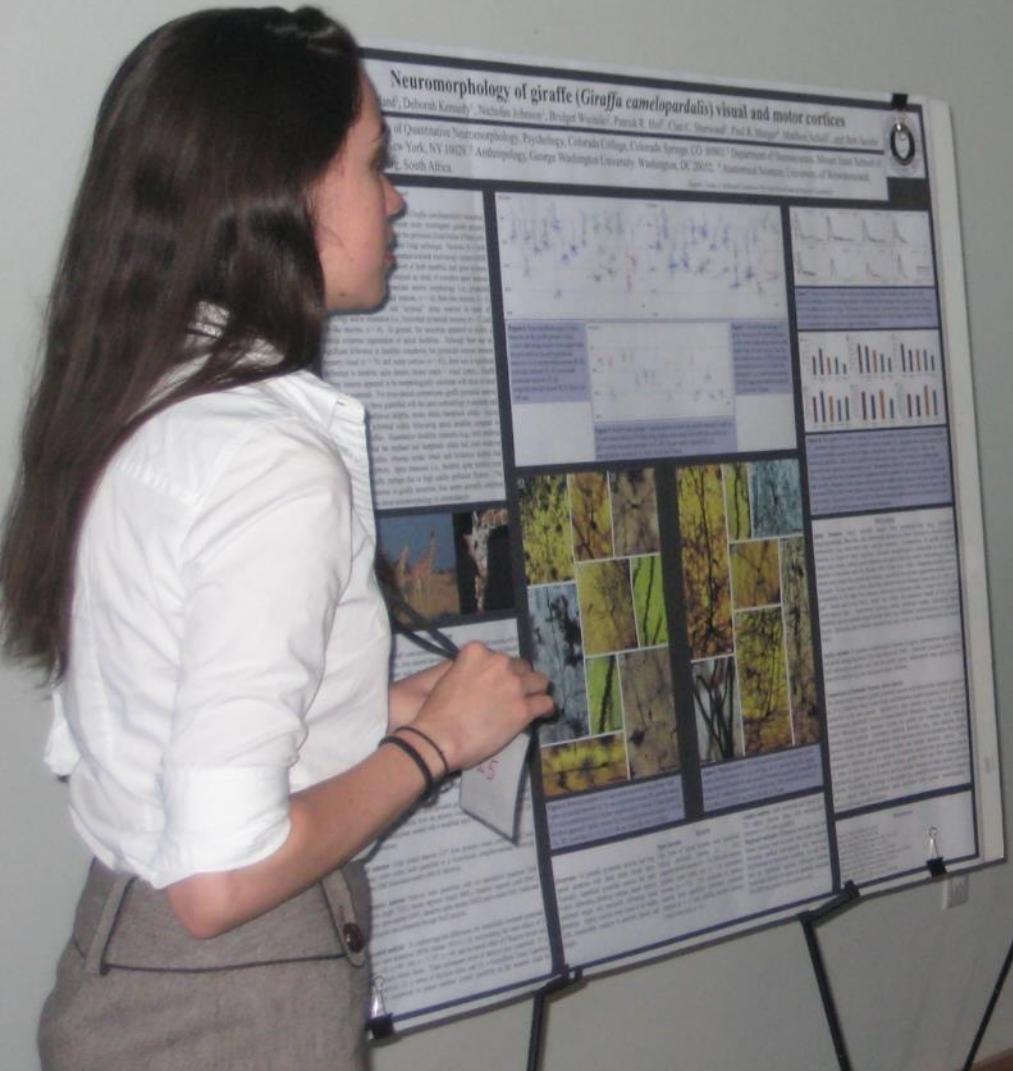
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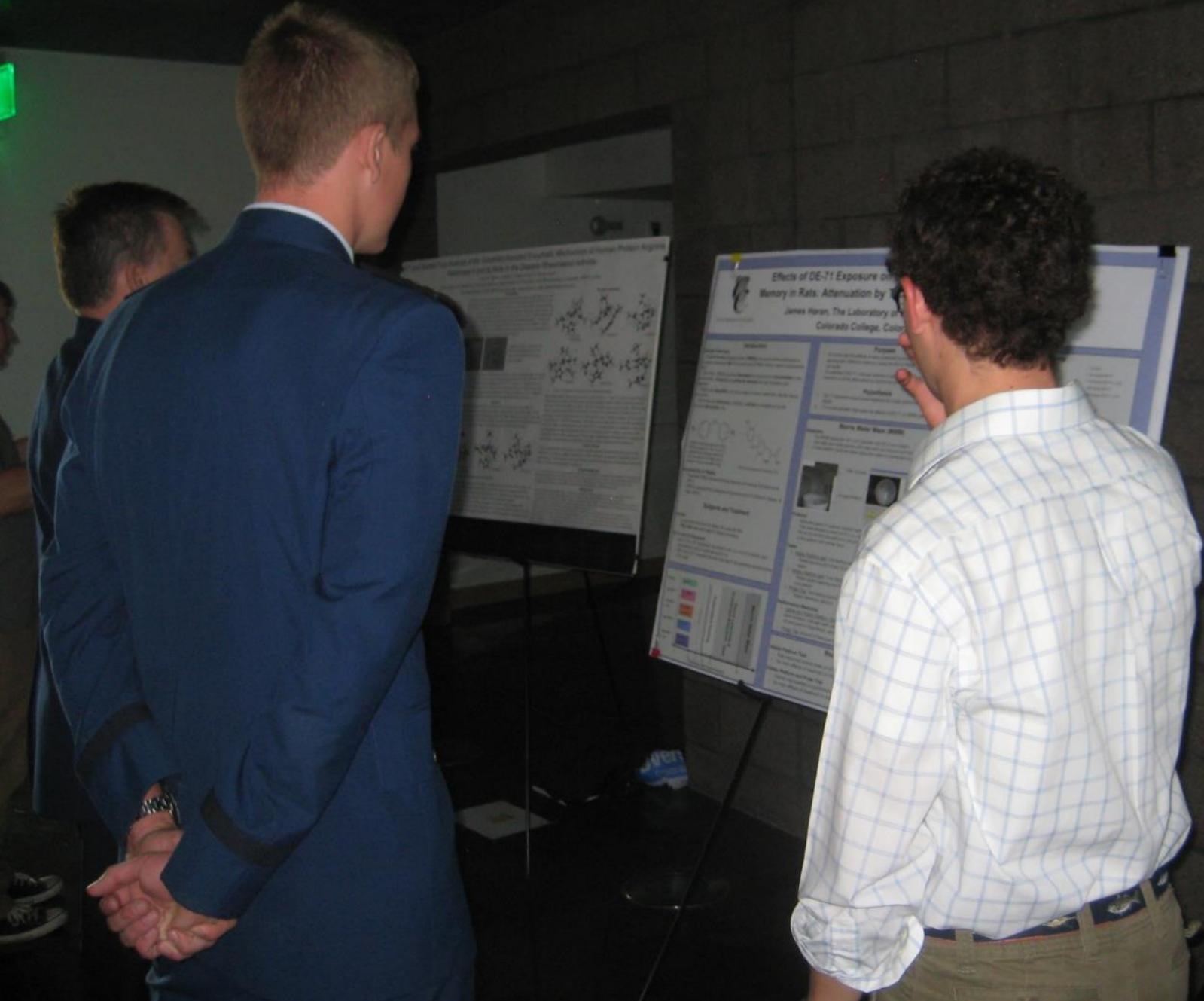












Effects of DE-71 Exposure on Spatial Learning and Reference Memory in Rats: Attenuation by Thyroid Hormone Supplementation

James Haran, The Laboratory of Behavioral Neurotoxicology,
Colorado College, Colorado Springs, CO

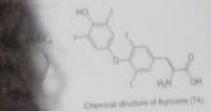
Introduction

Brominated PBDEs are used as flame retardants in brominated PBDE mixture used in polyurethane.

Accumulated from products and accumulate in the environment exposed through inhalation and

Accumulates in human breast milk, adipose tissue

PBDEs is similar to endogenous thyroid



Impairs learning and memory (Erikson et al., 1998)

Genes thyroid hormone T4 (Driscoll, Gibson, &

Effects and Treatment

Low doses, free plasma per liter
High doses, free plasma per liter
for behavioral testing

50 microg/day dissolved in corn oil, or 500 µg/day, were given to pregnant rats days 6-12

Control rats also received 50 microg/day levotriiodothyronine

- To further test the effects of early postnatal exposure to DE-71 on spatial learning and reference memory using the Morris Water Maze (MWM) in a rat model.
- To examine if DE-71-induced deficits in spatial learning and reference memory could be attenuated by thyroid hormone supplementation.

Hypothesis

- DE-71 exposure would dose-dependently impair performance in the MWM.
- T4 would partially attenuate the effects of DE-71 on MWM performance.

Morris Water Maze (MWM)

Apparatus
The MWM measured 162 cm in diameter and 62.5 cm in height.
The water was made opaque with latex paint and kept at room temperature.

A fixed platform (4x4) was raised above the water or submerged and hidden.



Protocol
Rats were placed in a pseudo-random starting location facing the wall.

They were allowed to swim for 60 s at until they found the platform or the wall.

The platform was placed in the hidden area, this caused the rats to swim to the platform with their "wings".

Tasks

- Visible Platform Task:** One testing period of four trials:
 - Tested memory and motor function as well as swimming speed in the water.
- Hidden Platform Task:** Four days of four trials per day:
 - Tested memory learning and incorporated a new task.
- Probe Test:** One testing period consisting of:
 - Tested reference memory

Performance Measures

- Visible and Hidden Platform Task: Escape time, distance traveled, time spent in the quadrant, time spent in the platform, and new location.
- Probe Test: Amount of time spent in the platform.

Results

Visible Platform Task

- Rats improved across trials on all areas.
- No main effects of treatment or trials.

Hidden Platform Task

- Overall improvement in performance.
- No main effects of treatment or trials.

Conclusion

DE-71 exposure impaired spatial learning and reference memory in rats.

Thyroid hormone supplementation attenuated these effects.

These findings support the hypothesis.



Exploration of the Fundamental Dimensions of Social Perception in the Legal Domain

Cobun Keegan
Colorado College, Colorado Springs, C

The Colorado College, Colorado Springs, CO

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Consequently, the first step in the analysis of the data is to identify the variables that are likely to influence the outcome. This is done by examining the literature on the topic and by consulting with experts in the field. The variables identified are then used to develop a model that can be tested against the data. The results of the analysis are then used to draw conclusions about the relationship between the variables and the outcome.

1

STORY
The ultimate goal of the project is to produce a book that will be used by students and teachers around the world.

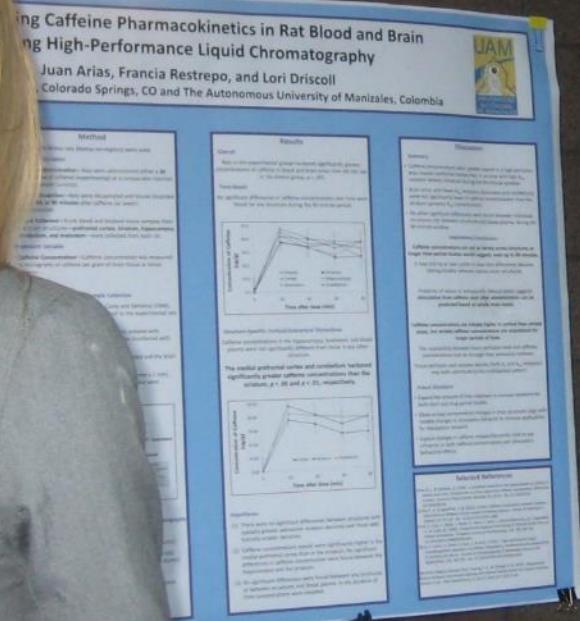
Page 1

A bar chart titled "Honesty is the best policy" showing the percentage of respondents who believe honesty is the best policy across different age groups. The y-axis represents the percentage from 0% to 100%. The x-axis lists age groups: 18-24, 25-34, 35-44, 45-54, 55-64, and 65+. The bars show a general downward trend as age increases.

Age Group	Percentage (%)
18-24	75
25-34	72
35-44	68
45-54	65
55-64	60
65+	55

Discussion

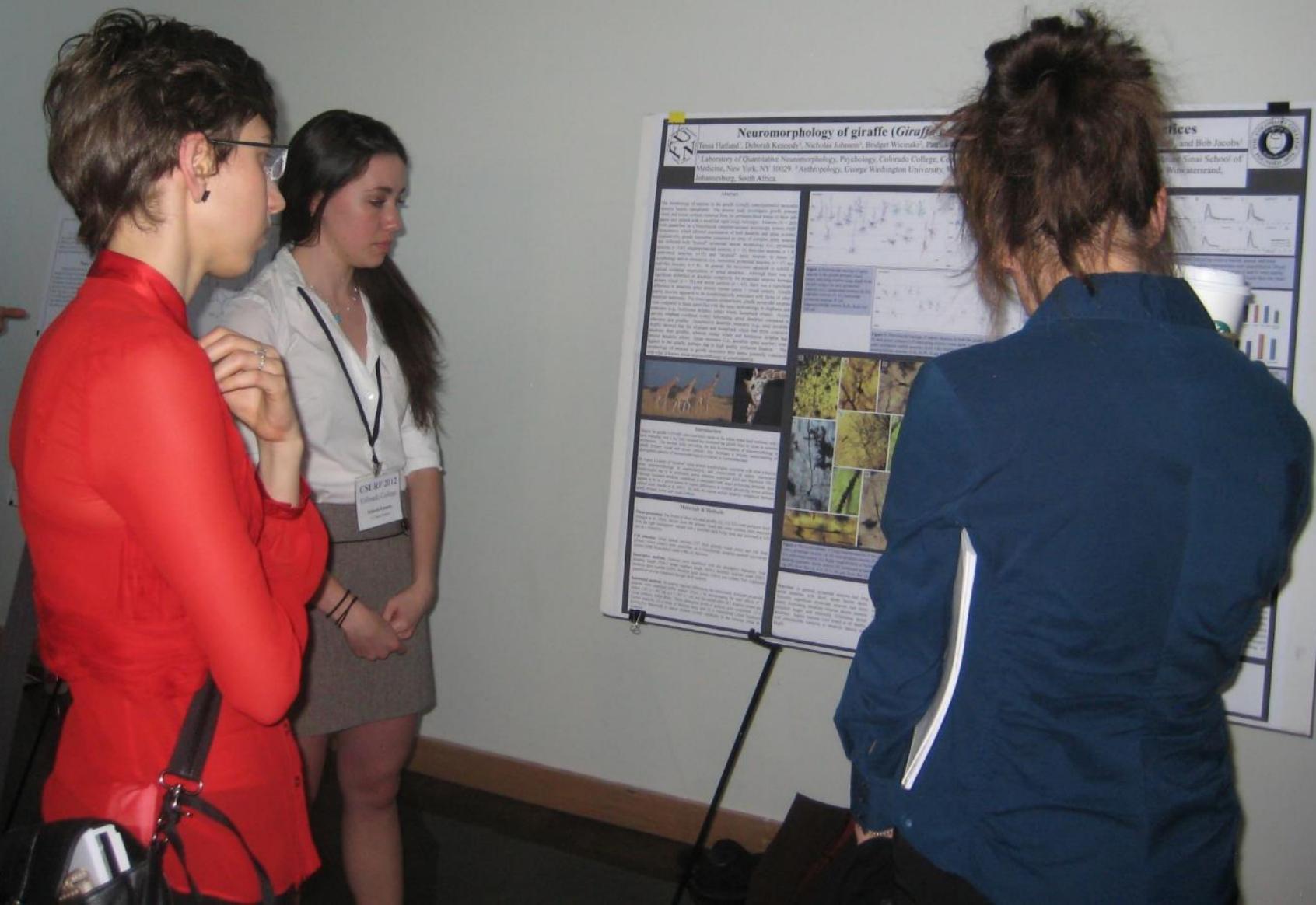
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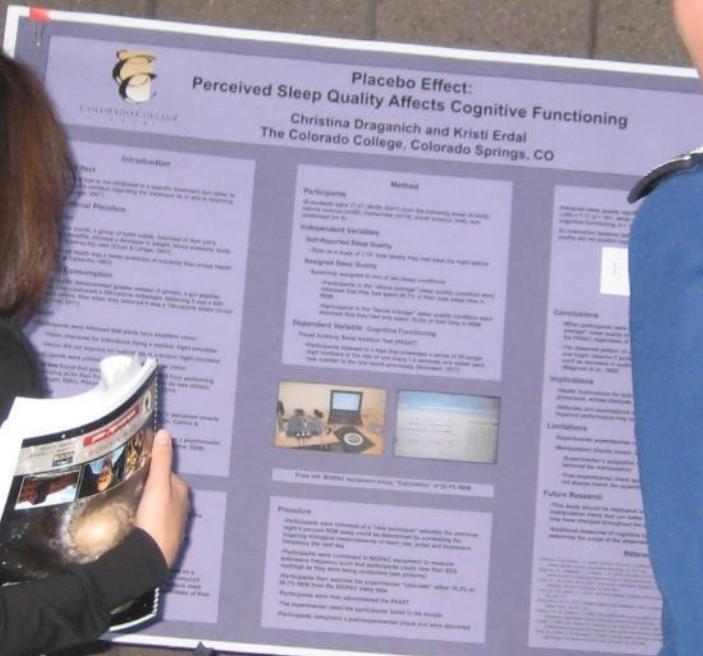
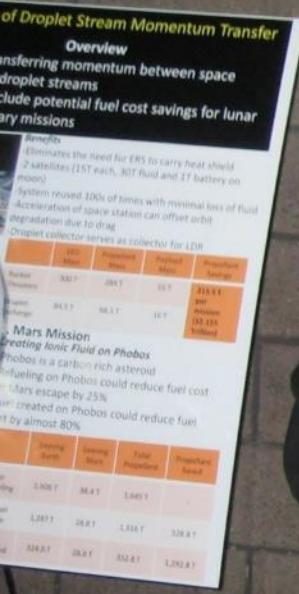


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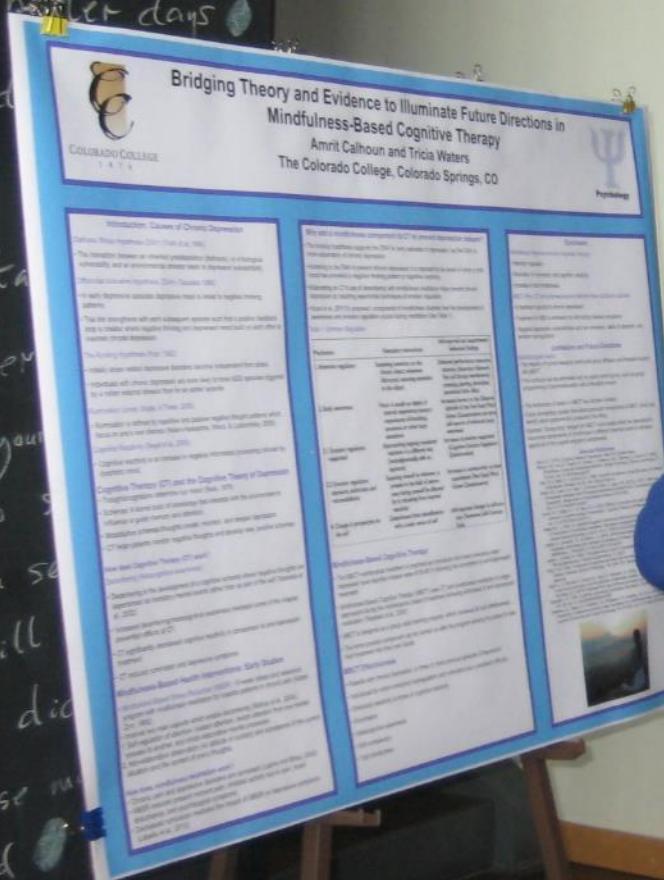
A photograph of a young man with dark hair and a slight smile. He is wearing a light-colored button-down shirt with vertical stripes and a dark lanyard around his neck. A white name tag hangs from the lanyard, which reads "CSURF 2012" at the top, followed by "Colorado College" and "Austin Arias" below it. He is positioned in front of a large research poster. The poster has a blue header with the text "Real Life: Wilderness Therapy as a Treatment for Adolescent Girls with Eating Disorders" and "Colorado College, Colorado Springs, CO". Below the header, there is a detailed abstract in white text on a blue background.

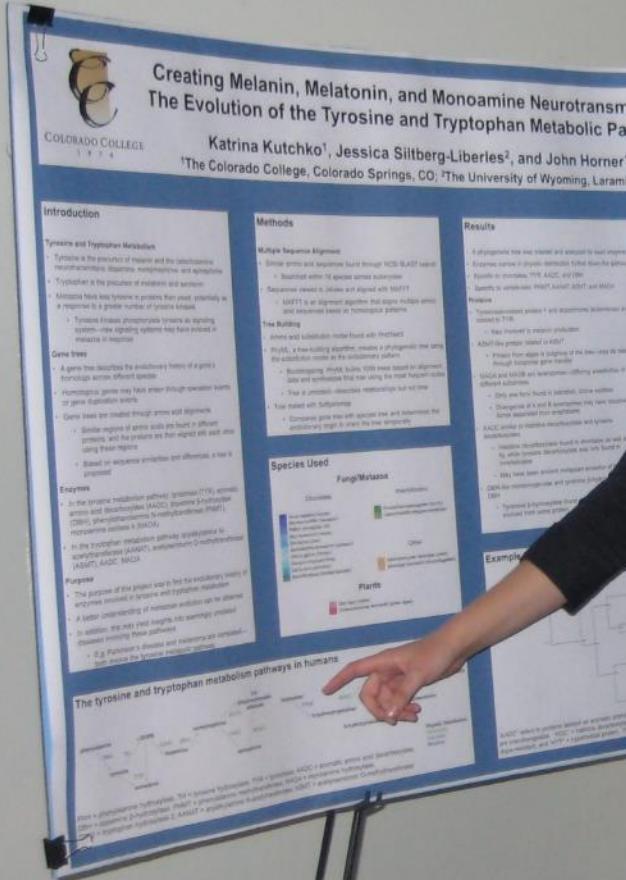


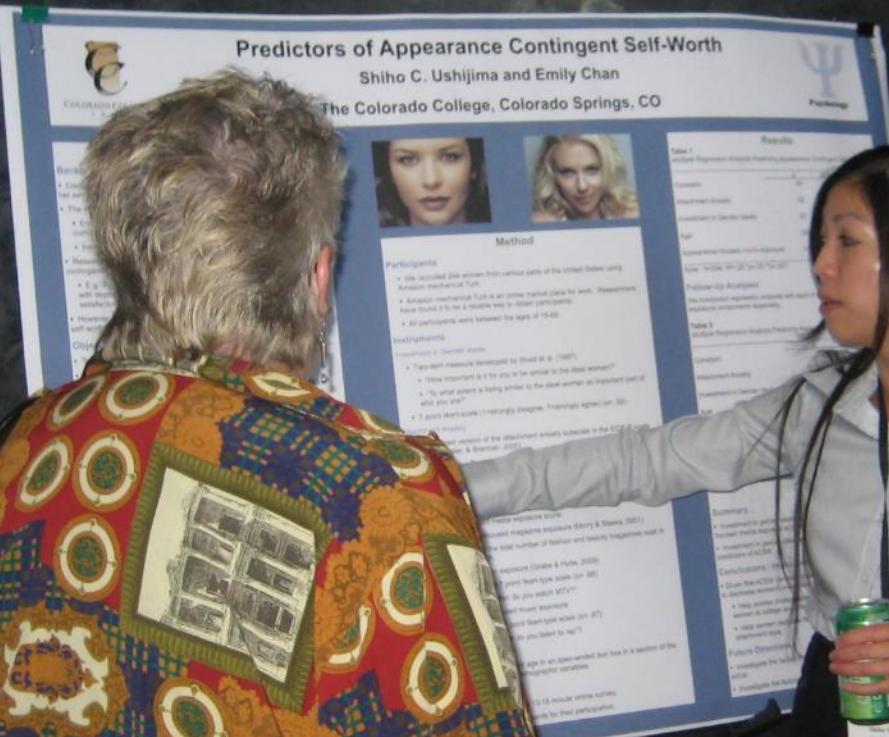












Spared and Impaired Aspects of Motivated Cognitive Control in



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Introduction

- Motivation in schizophrenia**
 - Dramatically altered motivation is a symptom, documented in individuals with schizophrenia.
 - Krebsbach: impacts day-to-day functioning, including motivation, enjoyment, resilience.
 - Patients report enjoyment, the sense of daily pleasure.
 - However, patients experience normal levels of pleasure in response to rewarding stimuli.
- Schizophrenia and the motivational response**
 - The motivational response is divided into two phases:
 - Hunting: the drive toward a stimulus, termed extrinsic motivation.
 - Chasing: the pleasure-seeking response after activating a stimulus.
- Postive: drive deficit in extrinsic motivation
- Negative: motivational deficits in extrinsinc motivation be disrupted if the characteristics of the stimulus are changed.

- DLPFC mediates cognitive control: the ability to inhibit prepotent responses on task-relevant stimuli
 - Mediated cognitive control is a reward response that improves cognitive control
 - Subjects showed decreased blood flow to the DLPFC during cognitive testing
 - Cognitive control may be mediated as a function of cognitive processing to achieve reward via response competition
 - In one study, subjects were asked to take a break after solving a series of memory tasks, which improved their memory performance (Fabbro & Amalberti, 2011)
 - In another study, subjects were asked to take a break after solving a series of memory tasks, which improved their memory performance (including the recruitment of the DLPFC)
 - Patients with PD may not respond as quickly as healthy controls or monetary rewards

Method

- Participants**

 - 40 patients and 30 spouses matched on age, gender, ethnicity, and socioeconomic status

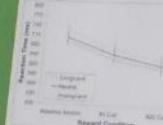
Procedure

 - The response conflict task began with a baseline session and transitioning with a monetary incentive session
 - Baseline were pictures of houses or buildings with incomplete, incomplete, or neutral words overlaid
 - Incentive trials were compensated by £20 (or 30 coins)
 - Points, changed into real money at the end, could be won on 20 dual-coded trials

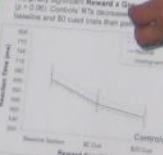


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Significant main effect of Reward ($p < 0.05$): RTs increased for reward trials.



- Marginal significant Reward x Trial Number interaction ($p = 0.08$). When reward was present RTs on incongruent trials became more similar RTs on neutral trials.
- Marginal significance of the Reward x Incongruity interaction ($p = 0.05$)



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Reward Candidates

The Neuropsychological and Cognitive Impacts of Deep Brain Stimulation In Treating Advanced-Stage Parkinson's Disease

Jeffrey Nadel

The Colorado College, Colorado Springs, CO

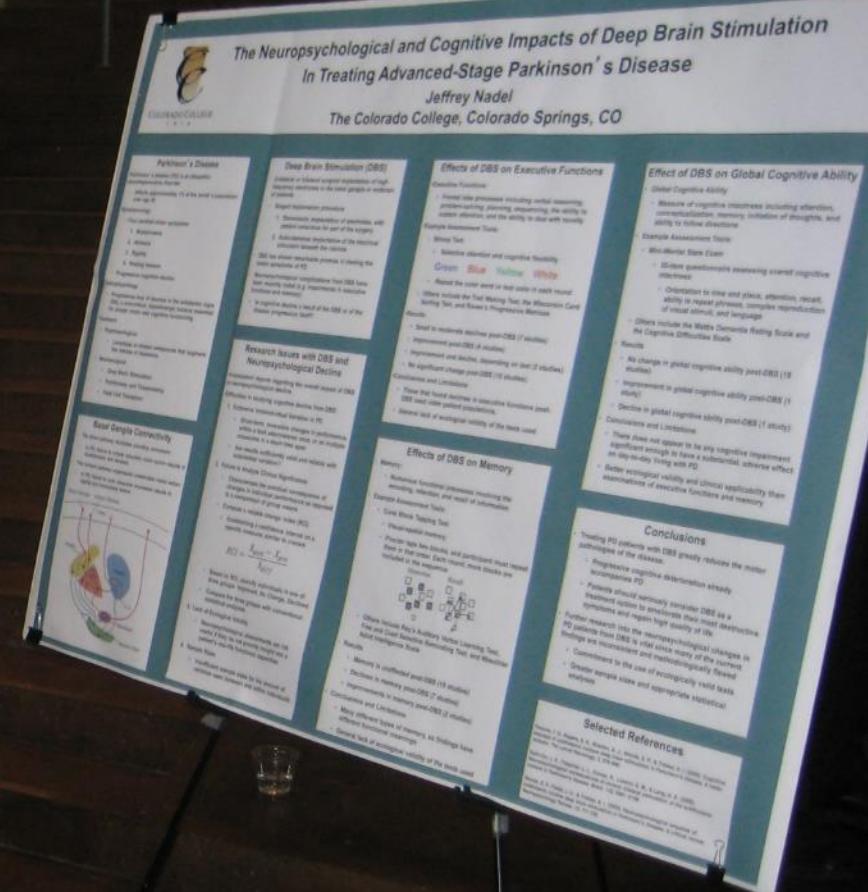


A man in a blue shirt and black pants stands next to a poster board, gesturing with his right hand. He is wearing a name tag that reads "CSURF 2012 Colorado College Jeffrey Nadel". He is holding a water bottle in his left hand and a can in his right hand.

Colorado Research Forum



A woman in a white top and a tan scarf stands to the left of the poster, looking at it. She is holding a can in her right hand.



EXIT

Kathryn Best et al. / *Can Disgust Embodiment be Desensitized?*

Kathryn Post and Tomi-Ann Roberts
The Colorado College, Colorado Springs, CO

Results



Figure 1. Mean monthly evapotranspiration (mm month) in the major party's location suggested by each party to a migrant returned did not change the number of migrants.

Gender Differences

A bar chart titled "Disruptive Communication" comparing four age groups: 18-24, 25-34, 35-44, and 45-54. The y-axis represents the percentage of respondents, ranging from 0% to 100% in increments of 20%. The x-axis lists the age groups. The bars show the following approximate values: 18-24 at 80%, 25-34 at 60%, 35-44 at 70%, and 45-54 at 85%.

Age Group	Disruptive Communication (%)
18-24	80
25-34	60
35-44	70
45-54	85

Discussion



References

Community Perceptions of Post-Traumatic Stress Disorder in N

Charlotte Pfeffer & Kristi Erdal
The Colorado College, Colorado Springs, CO

A photograph of a man with short, light-colored hair and glasses, wearing a dark suit jacket over a white shirt. He is positioned in front of a large projection screen, facing away from the camera towards the right. His left hand is resting against his chin in a thoughtful pose. The projection screen displays a slide with the title "Community Reintegration" in large, bold, black font. Below the title, there is a large amount of text in a smaller, less distinct font, which appears to be a transcript or summary of a speech. The background shows a window with a grid pattern and some vertical blinds.

Method

Participants

Ethnic Acholi community living in northern Uganda:

- Mental professionals ($n = 400$)
- Mental health professionals ($n = 355$)
- Lay participants ($n = 180$)

Measures

SOCIAL DISTINCTION QUESTIONNAIRE

- Score Vignette LRA soldier vs. LRA victim

LRA Soldier Vignette

William is a 25-year-old man who is a Ugandan. When he was 10 years old, his family was forced from the home and forced to flee to the bush. He was captured by the LRA and became a soldier. In the middle he was with the LRA, he was forced to kill and rape innocent people or he would be killed. He has just returned to his home in Gulu, but he is acting differently. William believes he fought with the LRA. He is nervous and afraid and is very anxious. He compares the feelings of being frightened and the feelings of being frightened about fighting in the LRA. William does not spend time with many people now, even though he used to be very social as a boy.

Victim vignette

William is a 25-year-old Ugandan who is from Gulu. When he was 15 years old, his family was suddenly killed by the Lord's Resistance Army (LRA). William was captured and left to die, but he survived. William was beaten and tortured. Since then he has acted differently, staying at home, and as a result, he has become very anxious. The family he left behind has been gone for a long time and he has not seen them since. He rarely goes outside and spends time with other people. Even though he used to be very social as a boy.

Occupation: medical professional, mental health professional

Dangerous Measures

- Social Distinction:** measured attitudes towards living and working with PTSD
- SMAT Assessment:** measured attitudes towards the vignette character and behavior in positive ways
- Dangerousness Scale:** measured attitudes towards the likelihood of the vignette character being a danger to himself or others.
- The Dangerousness Scale was unreliable in a Ugandan sample in analysis.

Control variables

- Age
- Gender
- Language of Survey (Adapt vs. English), used as a proxy measure for education

Procedure

- Participants were randomly assigned to read the victim or the LRA soldier vignette.
- After reading the vignette, participants completed the Social Distinction Scale, SMAT Assessment, and Dangerousness Scale about the vignette character.

A close-up photograph of a person from the waist up, facing left. They are wearing a blue and white geometric patterned dress. Their right hand is raised near their head. In the background, a white poster is visible with the title "Social Distance" at the top. The poster contains several lines of text and some small diagrams, though they are not clearly legible.



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A Cross-Sectional Study on the Development of Sharing Behavior: An Evolutionary Perspective

Eleanor Olson

The Colorado College, Colorado Springs, CO

Introduction

Guiding Question: What are the innate and socialized aspects of sharing behavior? How and in what ways does sharing behavior from an evolutionary perspective, develop during maturation?

Theory and Prior Evidence

Preference for relatedness

- Evidence from humans have demonstrated a preference for proximity to relatives in others (Hamilton & Wynn, 2011).

- Evidence from social and developmental factors during maturation

- Sharing behavior is most strongly impacted by the degree of relatedness between the giver and the receiver.

- Age of the receiver

- The younger the receiver, the more likely the receiver is to share in a sharing act (Olson, 2009)

- Degree of relatedness to the receiver

(Olson, 2009)

- Age of the giver

(Olson, 2009)

- The older the giver's genes to be

- Offspring vs. the perspective of the parent

- Offspring 1

- Offspring 2

- Offspring 3

- Offspring 4

- Offspring 5

- Offspring 6

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Comparative Neuromorphology of Florida Manatee, Giraffe, African Elephant, and Hippo

Devin M. Wahl¹, Chet C. Sherwood¹, Patrick R. Hoff¹, Bonsuwee C. Maseko², Paul R. Manger², and

¹Laboratory of Quantitative Neuromorphology, Psychology, Colorado College, Colorado Springs, CO 80903 ²Department of Medicine, New York, NY 10029. ³Anthropology, George Washington University, Washington, DC 20052. ⁴Anatomical Sciences, Johannesburg, South Africa

Abstract

Recent comparative studies have demonstrated that the brain size of mammals is not correlated with their body size, and have suggested that the number of neurons per unit volume of brain tissue is the primary factor in determining brain size. In this study, we used quantitative methods to compare the brain morphology of four large mammals: the Florida manatee, giraffe, African elephant, and hippopotamus. We used a novel technique to estimate the number of neurons in the brains of these animals, and found that the number of neurons per unit volume of brain tissue was significantly higher in the Florida manatee than in the other three animals. This suggests that the Florida manatee has a more complex brain than the other three animals, and may be better suited for learning and memory tasks.



Figure 1. Micrographs of the Florida manatee brain.

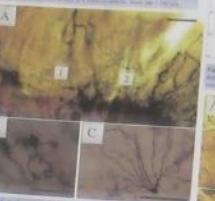


Figure 2. Histological sections of the Florida manatee brain.



Figure 3. Micrographs of the giraffe brain.



Figure 4. Micrographs of the African elephant brain.



Figure 5. Micrographs of the hippo brain.

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Bria Wahl
C. Wahl

Effects of Exposure to DE-71 on Visual Discrimination in Rats and the Attenuation Effects of Levothyroxine

Megan M. Lieb

Colorado College, Colorado Springs, CO



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Introduction

- DE-71 is a commercial mixture of polybrominated diphenyl ethers (PBDEs), flame retardants used as additives to polymers in textiles, electronics, furniture, and various building materials.

Bioactivity

The structure of PBDEs (see below) is similar to that of thyroxine (T4) in the body.

Exposure can cause reduction of circulating T4 levels.

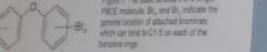


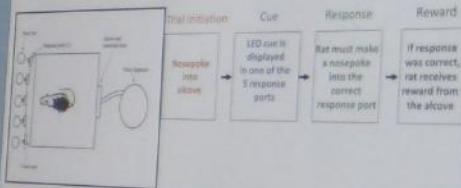
Figure 1. The basic structure of a single PBDE molecule. Br_n indicates the general class of substituted bromines where n=1 to C10 or each of the chlorine rings.

PBDEs are easily liberated from products when they enter the environment, they biomagnify in wildlife, and in human milk, blood and adipose tissue.

- In this current study we investigated the extent to which associative learning is impacted by developmental exposure to DE-71 at doses of 30 and 60 mg/kg body weight per day.
- Additionally, we investigated how elevation of a synthetic version thyroxine, levothyroxine (L74) could ameliorate neurobehavioral deficits caused by DE-71.
- We hypothesized that learning would be slowed by DE-71 exposure based on previous research (Gallagher et al., 2005), and that L74 would help to reverse the impact of DE-71.

Method: Visual Learning Task

- Automated testing was administered to each rat 6 days per week, with each session lasting 60 minutes or 100 trials.
- A series of four shaping tasks were administered to train the rats on the behaviors necessary for completion of the visual learning task.
- Criterion for completion of the visual learning task was achieving at least 80% correct responses for 2 out of 3 days in a row.



Results

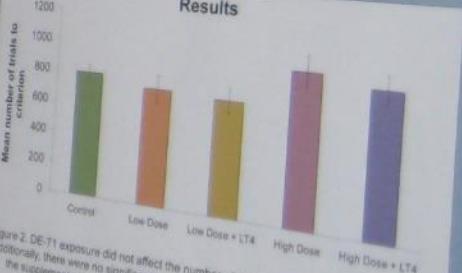


Figure 2. DE-71 exposure did not affect the number of trials to criterion in the learning task. Additionally, there were no significant effects of L74 supplementation on learning, although the supplemented groups required slightly fewer trials than their non-supplemented counterparts to reach criterion. (Error bars = +/- 1 SE.)

Method: Subjects and Treatment

- Subjects: 12 male Long Evans rats from 10 separate litters (5 mice/pups from each litter).
- Each litter was assigned either one mouse littermate into other litters, and a given exposure and treatment.

Exposure and Treatments

- All treatments were administered orally via glass needle.



Figure 3. Performance improved over the course of the first four sessions for all mice. Rats who were supplemented with L74 tended to respond more accurately than those who were unsupplemented.

Summary
All treatment groups had similar performance on the visual learning task, with no difference between treated and control groups.

Specific Points

- Results: No significant differences between control and treated groups.
- How: L74 did not significantly improve performance in the treated groups.

L74 did not significantly improve performance in the treated groups.

Rats in the treated groups had similar performance to their non-treated counterparts.

- Changes: No significant changes in performance between control and treated groups.
- Sample size: Sample size was adequate for statistical power.
- The risk: The risk of DE-71 exposure is low, but the potential health effects are not fully understood.

Limitations

None

Future Directions

- When the increased performance is observed.
- A new visual learning task will be developed.
- The effects of L74 on DE-71 exposed rats will be further investigated.

Gender and Gender Stereotyping in the Classroom

Allison Lurie and Patricia L. Waters
The Colorado College, Colorado Springs, CO

Method

Participants

Participants included 46 undergraduate students (Males = 14) from five consecutive years of the same First Year Experience (FYE) course.

-15-16 students per class (average)

-Same professor every year

Measures

Bem Sex Role Inventory (BSRI; Bem, 1974)

- 60 items (30 male, 20 female, 20 androgynous)
- Likert scale 1 (Almost never true for me) to 7 (Almost always true for me).

Gendered Speech Code Book

Feminine Speech

- Rapphrase/Question (e.g. asking for clarification on one's point and continuing discussion on that point) ($\alpha = 0.91$)

- Buffers (e.g. "... kind of..." ($\alpha = 0.87$))

- Tag statements ($\alpha = 0.61$)

- Rising statements (e.g. statements ending with a rising intonation) ($\alpha = 0.58$)

- Acknowledgment (e.g. "Yes...", "I agree with what Andy said..." ($\alpha = 0.71$))

- Injection of one's own idea (e.g. acknowledging another's statement and then continuing with your own) ($\alpha = 0.95$)

Masculine Speech

- Assertive speech ($\alpha = 0.87$)

Hour-long video recorded four weeks into the semester. Seven-week recording period. Gendered speech code book recorded data (alphas)

Results

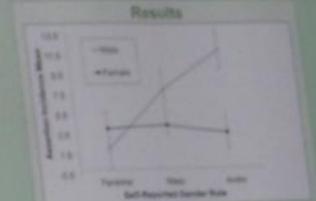


Fig. 1.2 > Gender Stereotype (Lurie, Waters, & Thompson, 2007, p. 103, figure 1).

-Assertive speech: $F(1, 40) = 6.52, p < .01, \eta^2 = .14$ (Males = 7.76 > Females = 4.07)

-Injection of one's own idea: $F(1, 40) = 7.46, p < .01, \eta^2 = .16$ (Males = 3.02 > Females = 1.27)

	Masculine	Feminine	Androgynous
Speech Type	$M = .20$	$M = .30$	$M = .20$
Classification	$.20^{**} > .30$	$.20 > .10$	$.20 > .10$
Buffers	$.20 > .30$	$.20 > .10$	$.20 > .10$
Tags	$.20 > .30$	$.20 > .10$	$.20 > .10$
Rises	$.20 > .30$	$.20 > .10$	$.20 > .10$
Acknowledgements	$.20 > .30$	$.20 > .10$	$.20 > .10$
Inject. Idea	$.20 > .30$	$.20 > .10$	$.20 > .10$
Assertions	$.20 > .30$	$.20 > .10$	$.20 > .10$

Note. Means with different superscripts are significantly different from each other ($p < .05$).

Main Effects of Gender Stereotype (Table 1)

Table 1. Means for Feminine vs. Masculine Speech

-Classification: $F(2, 40) = 3.42, p < .05, \eta^2 = .15$

-Assertive speech: $F(2, 40) = 3.88, p < .01, \eta^2 = .14$

Interaction Effect Between Sex and Gender (Figure 1)

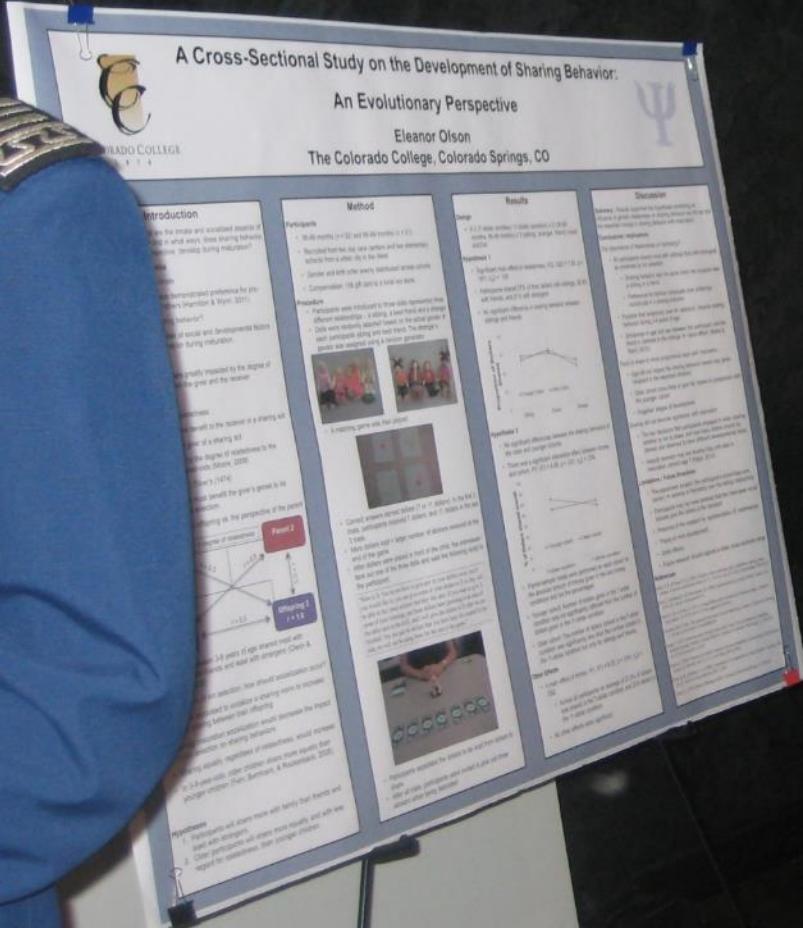
-Assertive speech: $F(2, 40) = 4.12, p < .01, \eta^2 = .12$

Androgynous males engaged in significantly more assertive speeches than feminine males, masculine females, androgynous females, and feminine females (LSD $p < .05$).

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A Cross-Sectional Study on the Development of Sharing Behavior:

An Evolutionary Perspective

Eleanor Olson
The Colorado College, Colorado Springs, CO

A medium shot of a woman from the waist up. She has blonde hair styled in a bob cut. She is wearing a white, long-sleeved blouse with a subtle texture or pattern, featuring a large white bow tie at the neckline. The blouse is paired with a solid black, knee-length pencil skirt. She is standing with her hands clasped in front of her, looking slightly to the right. She is wearing a thin black lanyard around her neck. A small portion of a dark blue, pinstriped suit jacket is visible on the right side of the frame. The background is dark and indistinct.





Psychology

Predictors of Appearance Contingent Self-Worth

Shiho C. Ushijima and Emily Chan

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Introduction

Background
• Distinctiveness of self-worth are domains in which someone has added the most value.

• The different domains can be categorized as being external or internal.
• External domains: physical attractiveness, social approval, academic achievement, and popularity.
• Internal domains: verbal and God's love.

• Researchers have predominantly studied the importance of having negative consequences of self-worth.

• E.g., Appearance contingent self-worth (ACSW) is negatively associated with motivation, eating disorders, and negatively associated with the quality of life.

• However, limited research has investigated the *importance* of contingencies of self-worth.

Objectives
• To investigate what factors predict ACSW in women.

• To determine the relative importance of the predictors.

Proposed Predictors of Appearance Contingent Self-Worth
contingent in cluster analysis:

• The degree to which an individual has internalized societal gender role expectations.

• The degree to which an individual has internalized societal gender role expectations.

• The degree to which an individual has internalized societal gender role expectations.

• Degree to which an individual feels dissonance and conflicts it based on responses from a closer other.

• Researchers found Marital and preoccupation status to predict negatively contingent self-worth.

• People highly regard their contingencies of self-worth very little.

• Amongst intelligence, physical attractiveness is the strongest predictor of self-worth.

• Physical attractiveness decreases with age, but older women's self-worth does not decrease with age.

• Therefore, as women age, they likely have lower self-worth on other domains.

Study Questions

• Do media consumers message to women that their self-worth is based on their physical attractiveness?

• If yes, would their appearance-focused media exposure predict anxiety self-perception and related construct to ACSW?



Method

Participants

• We recruited 204 women from various parts of the United States using Amazon Mechanical Turk.
• Amazon Mechanical Turk is an online market place for work. Researchers have found it to be a cost-effective way to obtain participants.
• All participants were between the ages of 18-62.

Instruments

Importance of Similarity

• Two-item measure developed by Wink et al. (1987).
• "How important is it for you to be similar to the ideal woman?"
• "To what extent is being similar to the ideal woman an important part of who you are?"

7 point Marital Status

• Binary version of the attachment anxiety subscale in the ECR scale (Rothschild, Hesse, & Bremer, 2000).
• 10 items on a 7 point Likert-type scale (α = .94).

• e.g., "I worry that romantic partners won't care about me as much as I care about them."

Appearance-Perceived Media Exposure

• The following questions were customized and summed to create an appearance-focused media exposure score.

• Appearance-focused magazine exposure (Merry & Blane, 2001).
• Measured the total number of fashion and beauty magazines read in the last month.

• Mass television exposure (Orlitzky & Hyde, 2008)
• 3 items on a 7 point Likert-type scale (α = .86)

• e.g., "How many hours do you watch MTV per week?"

• Appearance-focused media exposure = sum of all three scores.

Procedures

• Participants completed a 10-15 minute survey online.
• Participants received \$2 cents for their participation.

Results

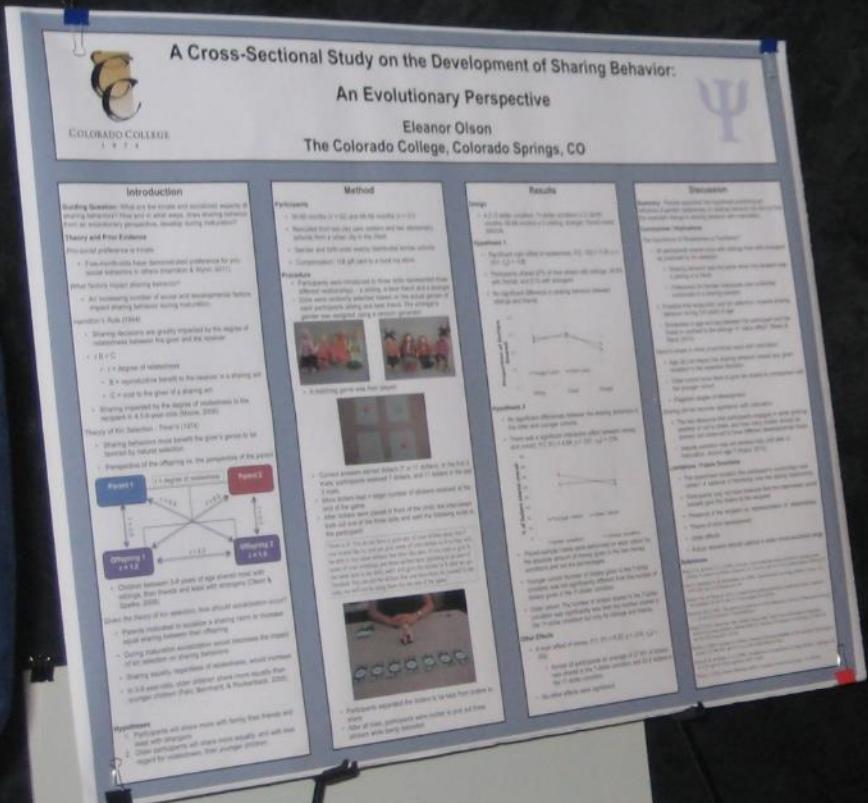
Table 1
Multiple Regression Analysis of Appearance Contingent Self-Worth

	Beta	t	p
Intercept	-.00	.00	.00
Age	.00	.00	.00
Similarity	.00	.00	.00
Marital Status	.00	.00	.00
Media	.00	.00	.00

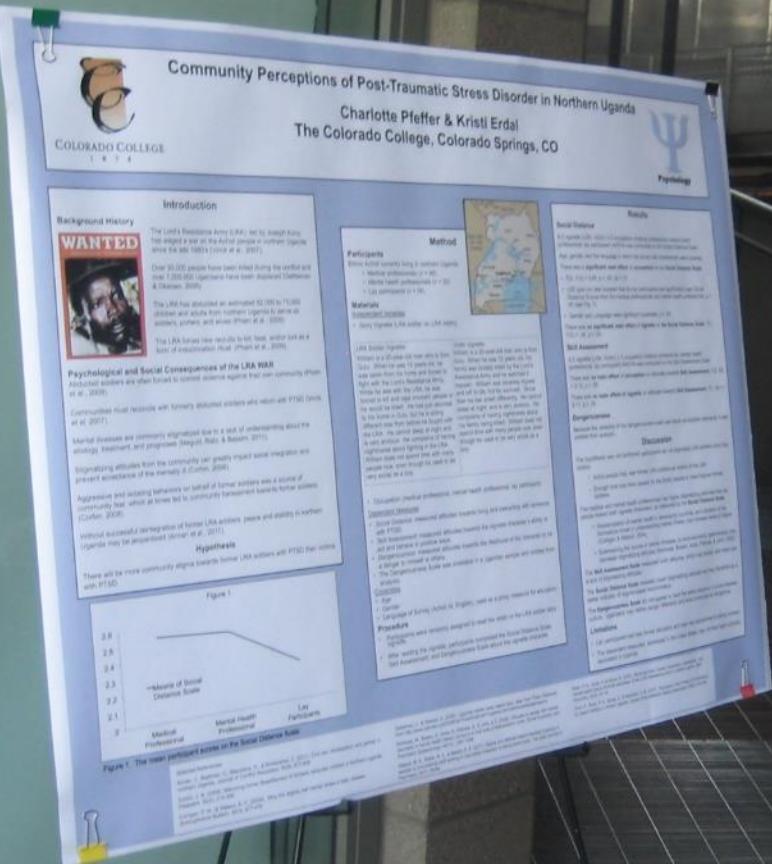
Table 2
Multiple Regression Analysis of Appearance Contingent Self-Worth

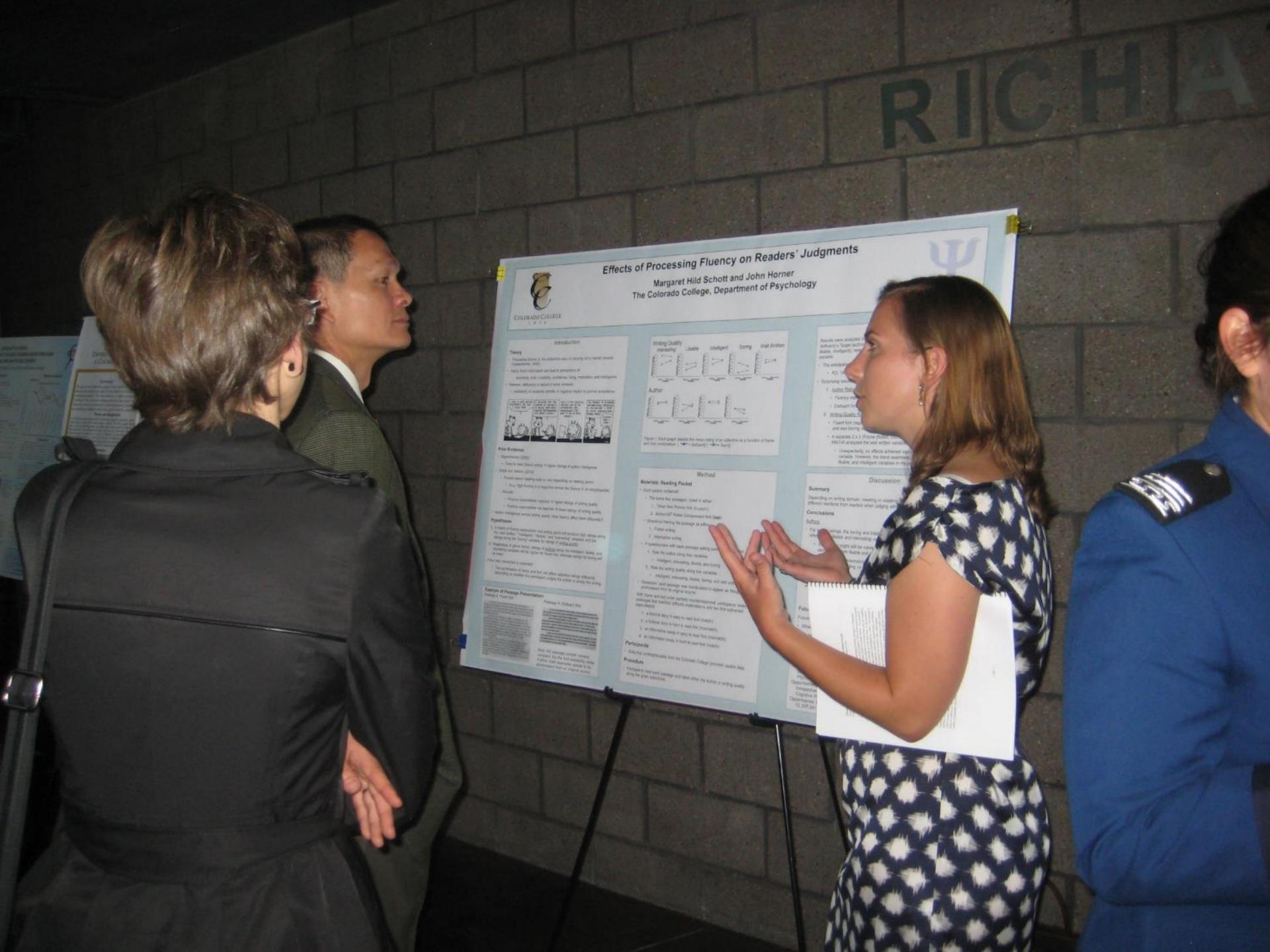
	Beta	t	p
Intercept	-.00	.00	.00
Age	.00	.00	.00
Similarity	.00	.00	.00
Marital Status	.00	.00	.00
Media	.00	.00	.00





A full-length photograph of a woman from the waist up. She has shoulder-length blonde hair and is wearing a white, long-sleeved blouse with a subtle texture or pattern over a black top. The blouse is tucked into a black, knee-length pencil skirt. Her hands are clasped together in front of her at waist level. She is wearing a thin black lanyard around her neck. A small, rectangular name tag is visible on her left chest, though the text on it is not legible. She is standing against a dark, solid background.





Neuropsychological and Cognitive Impacts of Deep Brain Stimulation In Treating Advanced-Stage Parkinson's Disease

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Deep Brain Stimulation (DBS)

Subchronic or chronic electrical stimulation of high-threshold neurons in the basal ganglia or related structures for the treatment of motor and non-motor symptoms of PD.

- Regional improvements
- Substantia nigra pars compacta, and other basal ganglia regions for the control of motor symptoms of PD.

DBS has shown remarkable promise in treating the motor symptoms of PD.

Non-motor benefits of DBS have recently been reported (e.g., improvement in executive function).

Is cognitive decline a result of the onset of the disease progression itself?

Research Issues with DBS and Neuropsychological Decline

Investigation results regarding the overall effects of DBS on cognitive function have been somewhat conflicting.

Differences in existing cognitive decline from DBS

are often attributed to differences in the

- Executive functioning baseline in PD.

Block-wise, executive, cognitive, and memory

improvements are often observed in PD patients

who receive DBS.

Are these improvements related to

the reduction in motor symptoms?

Or are they related to the

reduction in depression?

Or are they related to the

reduction in anxiety?

Or are they related to the

reduction in hallucinations?

Or are they related to the

reduction in delusions?

Or are they related to the

reduction in bradykinesia?

Or are they related to the

reduction in rigidity?

Or are they related to the

reduction in tremor?

Or are they related to the

reduction in dyskinesia?

Or are they related to the

reduction in bradyphrenia?

Or are they related to the

reduction in apathy?

Or are they related to the

reduction in depression?

Or are they related to the

reduction in anxiety?

Or are they related to the

reduction in hallucinations?

Or are they related to the

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Or are they related to the

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reduction in dyskinesia?

Or are they related to the

reduction in bradyphrenia?

Or are they related to the

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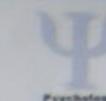
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Bridging Theory and Evidence to Illuminate Future Directions in Mindfulness-Based Cognitive Therapy

Amrit Calhoun and Tricia Waters
The Colorado College, Colorado Springs



Why add a mindfulness component to CT to prevent depression?

- The existing interventions supports the idea for every researcher of depression, one way or another, to include a component of self-care.
- Introducing to the field to prevent chronic depression, it is important to be aware that the intervention has provided a negative thinking pattern or cognitive instability.
- Establishing an CT's job of decreasing with mindfulness meditation, may prove important to increasing experiential techniques of emotion regulation.
- It is also important to increase the number of studies that evaluate the long-term effectiveness of the intervention.

Table 1: Summary of Depression

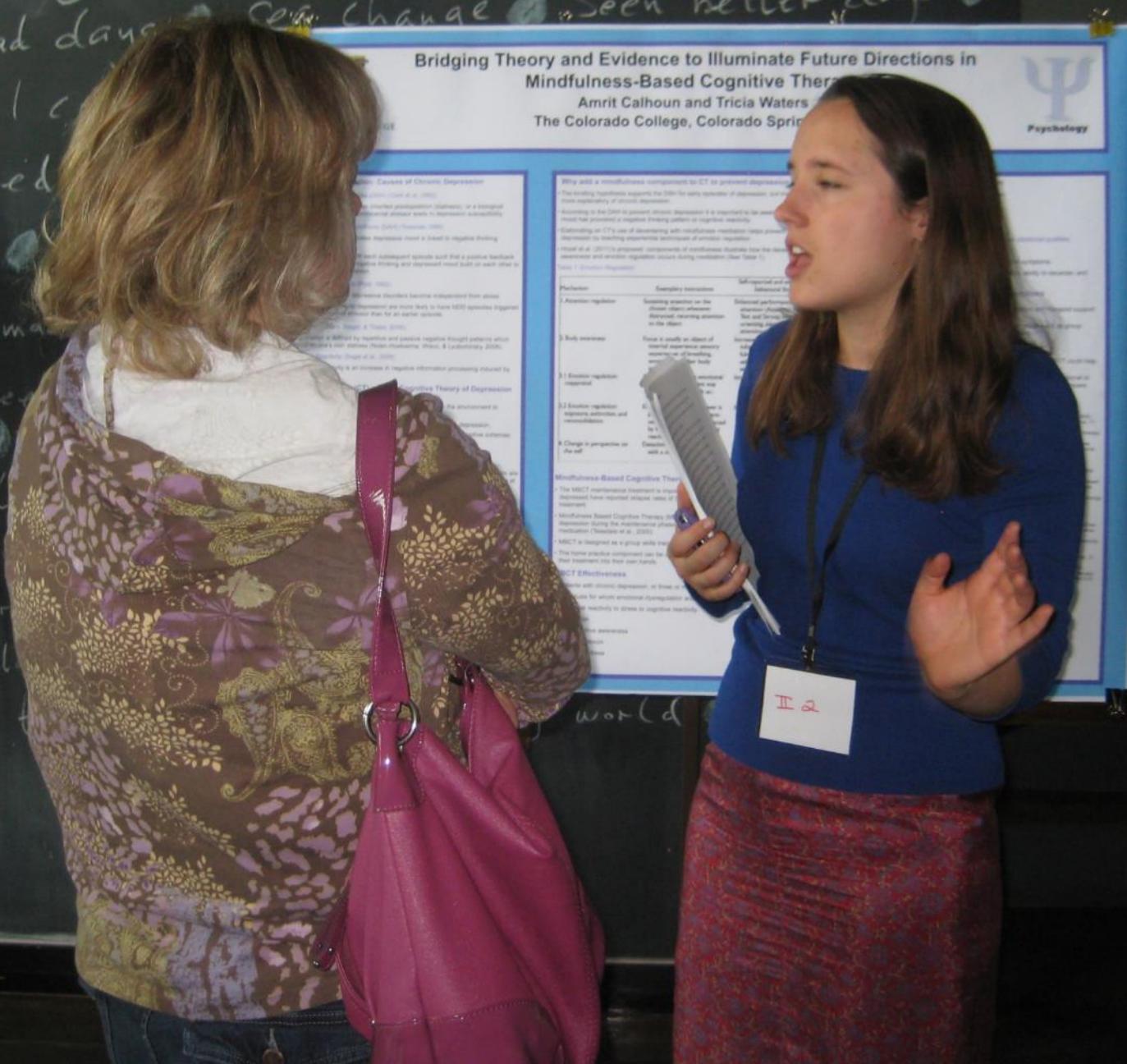
Meditation	Experiential intervention	Self-supported and supported intervention
1. Attention regulation	Teaching attention on the chosen object; breathing, focusing attention in the object.	Enhanced performance, relaxation, and reduced anxiety, increased self-esteem, and reduced symptoms of depression.
2. Body awareness	Focus is usually on aspect of internal experience sensory system, somatic sensations, body movements, etc.	Reduced pain, improved mood, reduced anxiety, and reduced symptoms of depression.
3. Emotion regulation	Regulation of emotional response, expression, extinction, and reconsolidation.	Reduced emotional intensity, reduced emotional reactivity, and reduced symptoms of depression.
4. Change in perspective on the self	Reduced self-focus, increased self-acceptance, and reduced self-criticism.	Reduced self-criticism, increased self-acceptance, and reduced symptoms of depression.

Mindfulness-Based Cognitive Therapy

- The MBCT therapeutic intervention is designed to help depressed individuals reduce rates of relapse.
- Mindfulness-Based Cognitive Therapy (MBCT) is a form of CBT that focuses on reducing the relapse of depression during the maintenance phase (Watson et al., 2008).
- MBCT is designed as a group while traditional CBT is individual.
- The name practice component can be used in a variety of ways, such as sitting in a chair, walking, or using their own hands.

MBCT Effectiveness

- Studies show that MBCT is effective in treating depression. In those who have had previous episodes of depression, it is effective in reducing the risk of relapse.
- For those who have had previous episodes of depression, it is effective in reducing the risk of relapse.





CSURF 2012
Colorado College
Devin Wahl
1st Year Student

The Power of Yucky: Can Disgust Embodiment be Desensitized?



Kathryn Post and Tomi-Anne

The Colorado College, Colorado

Introduction

Background
Continent theory emphasizes the emotional relativity between moral concepts and their social context. For example, a cold blanket may contribute to the feeling that it is important to be compassionate and morally decent.

Goal
Social psychologists have been interested in the cognitive result of disgust and how these cognitions can be manipulated. Disgust primes have been associated with increased severity of moral judgments and negative evaluations of others (Cialdini, Kacik, & Post, 2011; Cialdini & Schweitzer, 2010).

Participants in disgust embodiment recall, "moral" or "immorality" response social norms and moral possibility are used in which moral evaluations of judgments of others are concerned.

Immorality Desensitization Objective and Hypothesis

Because only investigated whether disgust embodiment could be degraded by desensitization to a disgust stimulus. Consequently, the hypothesis of moral judgments

decreased in the disgust desensitization group were expected to evaluate more

morally than the disgust embodiment and the control group.

Method

Participants
20 female students and 21 female controls (age = 20.8 years) were randomly assigned to a disgust embodiment, disgust desensitization, or control group.

Stimuli
Disgust induction:
200 milliliter solution of Sweenon-Bitter, an herbal flavor with a pungent bitter taste.

Disgust vignettes:
Three new vignettes were used to assess moral judgment (Post, Adler, & Cialdini, 2008).

Figure Example:
"Frank's dog was killed by a car in front of his house. Frank had heard that in China, people eat dog meat, and he was curious about what a taste like. So he went to a pet shop and bought a dog and ate it for dinner. How wrong was it for Frank to eat his dog for dinner?"

Moral Desensitization:
Evaluation of five vignettes at a 2.5 minute interval, and a final scale, three

times daily explored the effects of sensory desensitization on CSE. During 2000 seconds, participants were instructed to drink a small amount of water every 10 minutes. Every time the experimenter signaled, after 1000 seconds, participants were asked to evaluate moral aggression to determine if they were more desensitized.

Results

Morality Subcategory Reliability

The vignettes represented three subcategories of moral thoughts:

- Community - duty and social role in community, respect
- Autonomy - desire to uphold justice, rights, ability to control
- Purity - promotes morality, the desire to avoid pollution or contamination

Although these moral domains were previously violated, we were able to replicate results (Cialdini et al., 2011).

Although these moral domains were previously violated, we were able to replicate results (Cialdini et al., 2011).

No significant differences between groups in rating of the immorality intentions.



Figure 1. Mean immorality evaluations of the items in the moral purity subcategory. Note: Disgust desensitization to a disgust stimulus did not change the mean immorality evaluations of the items in the moral purity subcategory.

Gender Differences

"There was an overall significant main effect of gender on vignette evaluations in the Purity subcategory ($F(1,62) = 11.68, p < .001$)."

Females evaluated vignettes in the Purity subcategory more harshly than did males.



Figure 2. There was a significant difference between females and males in the mean immorality evaluations but no significant difference in the mean immorality evaluations.

Discussion

This study provided important information about the characteristics of disgust.

Disgust embodiment is an effective input disgust embodiment for females.

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Community Perceptions of Post-Traumatic Stress Disorder in Northern Uganda

Charlotte Pfeffer & Kristi Erdal
The Colorado College, Colorado Springs, CO



Method

Participants

- Ethnic Acholi currently living in northern Uganda.
- Medical professionals ($n = 48$)
 - Mental health professionals ($n = 20$)
 - Lay participants ($n = 59$)

Materials

Enhanced Variables

- Story Vignette (LRA soldier vs. LRA victim)

LRA Soldier Vignette

William is a 25-year-old man who is from Gulu. When he was 15 years old, he was taken from his home and forced to fight with the Lord's Resistance Army. While he was with the LRA, he was forced to kill and rape innocent people or he would be killed. He has just returned to his home in Gulu, but he is acting differently now from before he fought with the LRA. He cannot sleep at night and is very anxious. He complains of having nightmares about fighting in the LRA. William does not spend time with many people now, even though he used to be very social as a boy.

Victim Vignette

William is a 25-year-old man who is from Gulu. When he was 13, his family was brutally killed by the Lord's Resistance Army and he watched it happen. William was severely injured and left to die, but he survived. Since then he has acted differently. He cannot sleep at night and is very anxious. He complains of having nightmares about his family being killed. William does not spend time with many people now, even though he used to be very social as a boy.

Dependent Measures

- Social Distance: measured attitudes towards items and people with PTSD
- Skip Assessment: measured attitudes towards items and behavior in positive ways
- Dangerousness: measured attitudes towards items and people as a danger to himself and others
- The Dangerousness Scale was unidimensional as a separate analysis

Covariates

- Age
- Gender
- Language of Survey (Acholi vs. English)

Social Distance

A 2 vignette (LRA. Victim) x 3 occupation (medical professional, lay participant) x 2 language (Acholi, English) ANOVA was conducted.

There was a significant main effect of occupation: $F(2, 112) = 3.88, p = .05, \eta^2 = .07$.

LSD post hoc test revealed that the lay participants had higher Social Distance scores than the medical professionals ($p = .05$ (see Fig. 1)).

Gender and Language were significant:

$F(1, 112) = 34, p < .05$

Skill Assessment

A 2 vignette (LRA. Victim) x 3 occupation (medical professional, lay participant) x 2 language (Acholi, English) ANOVA was conducted.

There was no significant main effect.

Danger

Because the skip assessment was omitted from our analyses, we did not have enough data to run an ANOVA.

The Hypothesis was supported

• Acholi people had higher Social Distance scores than English speaking soldiers.

The medical and mental health professionals had higher Social Distance scores than lay people toward both victims and soldiers.

• Westamino et al. found that Congolese women had higher Social Distance scores than men toward both victims and soldiers.

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No Through Traffic or U-Turns

