Why Choose Scranton Psychology?





Choose Scranton for Individual Attention

- > Small classes & seminars
- Award-winning professors
- > Mentoring:
 - Student research
 - Teaching assistantships
 - Internships
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 - Individual advising with Psych faculty
 - Career Development Seminar



Dr. Bryan Burnham works with undergraduate students in psychology laboratory courses to replicate studies published in academic journals.



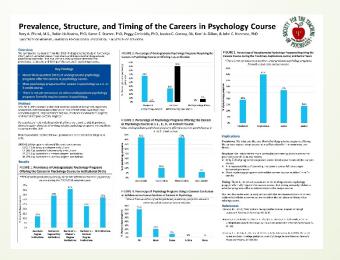
Political
Psychology
Honors Course
Field Trip

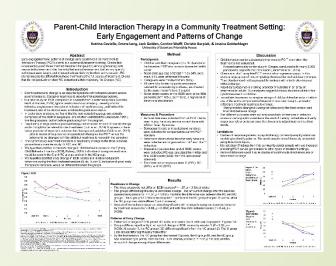


Mentoring in Research

- Faculty-Student Research Program
- Presidential Summer Research Awards
- Student conference presentations
- Co-authoring journal articles







Faculty & Students present at the Eastern Psychological **Association (EPA)**



Preadmission Interview Policies of APA-Accredited Programs: You Will Be Interviewed!

Jake S. Ziede, John C. Norcross, & Michael A. Sayette



Introduction



Oteast	Regulard & Purbonel in Facuum (Pin	-	Frebruse (3%)	No Region
Country	14%	100	1970	304
Commission	17%	1100	14%	
	ers.	364	10%	294
Fre-Ri	27%	10%	18%	

Results

Discussion



References



Tire Pressure Field Experiment Testing the Effectiveness of Acknowledgement of Resistance

Carly Bock & Jessica M. Nolan, PhD. The University of Scranton



Behavior change can occur by increasing nersuasion using Alpha people want to approach the behavior. In comparison, Omega strategies remove something aversive that makes neonle less likely to avoid the requested behavior. An Omega strategy known as the acknowledgment request works to diffuse resistance by simply recognizing the resistance being experienced by the target of the compliance request. For example. Knowles and Riner (2007) had a student experi approach pedestrians and ask if they would mail a letter. In the standard request condition, 71% of people agreed; whereas, in the acknowledgment condition, 100% of people agreed.

assigned participants to receive 1 of 3 persuasive messages (or control). The alpha message was designed to make participants want approach the behavior with the promise of extending the lives of their tires. The omega message was designed to reduce resistance to the request by addressing lack of a visual cue as a known barrier t participation. The third message added an acknowledgment to the omega message. Results showed that all three messages increases compliance over the control, with the acknowledgment message beir most effective.

The purpose of this research was to further investigate the effectivene of the acknowledgment request in promoting proper tire maintenance

Participants were 120 (54 male, 66 female) individuals returning to the vehicles at the University of Scranton on-eampus parking lots. Af selecting an individual to approach, the experimenter selected a candy determine which of two requests to make. In the control condition experimenter said: "Would you like me to check the pressure in your tires Control experimenter said: "Would you like me to cheek the pressure my your toos
to ensure that they are properly inflated?" In the acknowledgment
condition, the participant heard: "I know you may not think it's
necessary, but would you like me to cheek the pressure in your times to
Total ensure that they are properly inflated?" All participants heard the same introduction in which the experimenter informed the participants about National Tire Safety Week and the benefits of properly inflated tires. The interaction with each participant took about five minutes to complete. the participant said "no" to the request, they were thanked for their time and the interaction was ended. If the participant said "yes" to the request, the trained experimenter accompanied him or her to their vehicle and recorded the pressure in all four tires and the number of tires that were under or over inflated. At the end of the interaction all participants were

We tested the effectiveness of the acknowledgment technique when requesting to check tire pressure. Participants were approached while returning to their vehicles at on-campus parking lots and were randomly assigned to one of two conditions: the acknowledgment condition or the control condition. Contrary to previous research, results showed that the acknowledgment request did not increase compliance rates compared to the control condition

Table 1: Number of Participants Who Agreed to Each of Three Requests

Condition

Control	23 (36.67%)	38	60
Acknowledgement	22 (38.98%)	36	59
Total	45 (37.50%)	75	120
Would you like a fre		12	58
		12	
	e tire gauge? 46 (79.31%) 52 (86.67%)	12	58 60

52 (86.67%) 8

101 (86.80%) 16

Of the 218 /38 5% Male, 61 5% Female) individuals arromached by the experimenter, 56.9% agreed to talk and of those, a little over 37% agreed to have their tire pressure checked. Over 80% of those who agreed to talk accepted a free tire gauge and the tire safety

across the two conditions χ^2 (1 , N - 120) - 0.068, ρ - 0.794. Participants in the control condition complied about as much as participants in the acknowledgment condition (see Table 1). Of the 45 individuals who complied, 12.1% had 1 or more tires that were underinflated and 13.5% had 1 or more tires that were overinflated.

for participants who accepted the free tire gauge, $\chi 2$ (1 , N = 120) = 1.134, p = 0.287. Nor was there a significant effect found across both conditions for participants who accepted the tire safety brochure, $\chi 2$ (1. K = 120) = 0.012, p = 0.912.

Knowles, E. S. & Linn, J. A. (2004). Approach-avoidance model of persuasion: Alpha and Omega strategies for change. In E. S.

Knowles & J. A. Linn (Eds.), Resistance and Persuasion (pp. 117-148). Mahwah, NJ: Lawrence Erlbaum Associates Publisher: Knowles, F. S., & Riner, D. D. (2007). Omega approaches to influence: Advances and future progress, 83-114

Presented at the 2020 Eastern Psychological Association Conference

60

Scranton Students & Faculty Present Research Around the Nation



Content Analysis Of 1,000+ Proenvironmental Behavior Articles Carly Bock, Olivia Basalyga, Nicole DiSanto, Charlotte Hacker, Allic Hotchkiss & Jessica M. Nolan, PhD The University of Scranton



Introduction

Research in the field of pro-environmental behavior (PEB) has grown exponentially in the last 50 years (see Figure 1). Broadly speaking, PEB includes engaging in acts that benefit the environment, such as recycling, and avoiding acts that harm the environment, such as air travel (Lange & Dewitte, 2019).

Lange and Dewitte (2019) provide an overview of PEB measurement approaches. These include field observation methods, laborator assessment, and self-report measures. Self-report measures of PEB can target different behavioral properties (e.g., frequency). Furthermore, questions can refer to different time frames and specificity. Several psychometrically valid standardized scales have been created to address PEB, including: the Pro-Environmental Behavior Scale (PEBS; Markel, 2013). The Environmental Action Scale (EAS; Alisat & Riemer, 2015), and The General Ecological Behavior Scale (GEB; Kaiser, 1998). The purpose of this research is to investigate the extent to which these and other standardized measures of PEB have been utilized in the published research on PEB.

An aggregate search of the Web of Science Social Science Citation Index using 17 terms for environmental behavior (the nine listed in Figure 1 and the same terms with the British spelling "behaviour"). A

reviewed to determine if PFB was measured. Criteria included mentions of human behavior or decision making in an environmental context, explicit statement that behavior was measured, or mentions of a specific PEB scale. Measurement of PEB was classified as sel report observed actual behavior or both. Articles were coded as using self-report if data was collected regarding what people have done, are doing, or plan to do to protect the environment. These include behavioral intentions, past behavior/habit, actual behavior, and the behavior of non-individuals. For example, "In the past weeks, how often did you X?". Where "X" is some behavior related to environmental protection (e.g., recycling). If PEB was measured with a self-report, it was further classified by the type of scale used and the number of items. If an article used items from a previously used scale that reference was noted. Self-report scales were classified as standardized scales, ad hoc scales, previously used ad hoc scales, adapted ad hoc scales, modified standardized scales, or (in rare cases) cannot be determined. It was also recorded if the article provided the full scale, partial scale (e.g., sample items), or no scale. Articles were coded as measuring actual behavior if they used methods such as measuring energy consumption from energy bills or reading

Abstract

This research reviews the existing literature on pro-environmental behavior. 1,455 articles were retrieved from the Web of Science from 1971-2015. Articles measuring PEB were classified as using selfreport, observable behavior, or both. Self-report measures were categorized by the type of scale. Preliminary analysis of 1,061 records revealed that the majority of PEB measures were self-report. Over half of the self-report measures were ad hoc scales; while only a small ercentage of utilized standardized scales

Figure 1: Growth in Research on PEB from 1971 to 2015

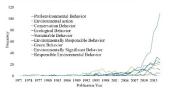


Table 1: Percentages of Self-Report Scale Type

Type of Scale	Percentage	
Ad Hoc	57.29%	
Adapted Ad Hoc	13.95%	
Previously Used Ad Hoc	10.78%	
Standardized	10.78%	
Modified Standardized	7.19%	

Preliminary analysis of the 1,061 articles revealed that 88,50% of articles coded as measuring PEB utilized self-report measures and 12.39% measured actual behavior. Of the self-report measures, ad hoc measures made up the largest portion of scales, then adapted ad hoe, previously used ad hoe, standardized, and modified standardized. See Table 1. On average, scales included 10.87 items (median = 7, mode 3). The minimum number of self-report scale items was 1 and the ximum number of items was 71. A little over half of the articles included the full scale (see Table 2).

Pro-environmental behavior research began in the 1970s and has continued to grow exponentially. Our preliminary results suggest that most of the articles reviewed measure PEB by self-report, more than half of which is measured using ad hoc scales. While there are existing standardized scales to measure PEB, researchers may be unaware of their existence, believe the scales are too long (e.g., GEB), or may want to capture a specific PEB, and thus, make up their own measures However, using standardized measures of increase confidence in our conclusions as the field continues to grow.

Table 2: Percentages of Provided Self-Report Scales

Scale Provided	Percentage
Full Scale	54.80%
No Scale	23.60%
Partial Scale	19.80%

Kaiser, F. G. (1998). A general measure of ecological behavior 1. Journal of Applied Social Psychology, 28(5), 395-422.

Lance, F. & Devitte, S. (2019). Measuring pro-environmental behavior: Review and recommendations, Journal of Environmental Psychology, 63 Larson, L. R., Stedman, R. C., Cooper, C. B., & Decker, D. J. (2015).

Understanding the multi-dimensional structure of pro-environmental behavior, Journal of Environmental Psychology, 43, 112-124. Markle, G. L. (2013). Pro-environmental behavior: Does it matter how it's measured? Development and validation of the pro-environmental behavior

scale (PEBS). Human ecology, 41(6), 905-914 Stern, P. C. (2000). New environmental theories: Toward a coherent theory of mentally significant behavior, Journal of Social Issues, 56(3), 407

Presented at the 2020 Eastern Psychological Association Conference contact: jossica.nolan@seranton.edu

Abstract

with autism and ADHD, tests of working memory, and cognitive tests of reaction time and response accuracy. As expected, ASD and ADHD

characteristics were positively correlated. The combination of reaction

symptoms but not with those of ADHD. In this non-clinical sample

time and response accuracy on cognitive tests corresponded with ASD

participants higher on the AQ performed better on cognitive tests than

Introduction

verlap in implicated genes and brain function (summarized in May et al 2016). Some researchers (e.g., Rommelse et al., 2016) have sugge

Autism Spectrum Disorder (ASD) and Attention Deficit Hyperactivity

Disorder (ADHD) commonly co-occur, and there is substantial evide

Variations in the traits or characteristics of both of these developments

Recently, researchers have recognized the importance of identifying comorbid ADHD + ASD in their studies; the comorbid group might have different (not simply additive) cognitive characteristics than either condition alone (May of al., 2016).

results. Several have found that social processing deficits occur in both conditions and are not useful differentiating ADHD from ASD. Response

inhibition also hasn't fared well for differentiation; it instead seems to be a

problem for either condition, and more impaired in the comorbid group. Working memory remains an open question. A recent study by Rommelse et. al (2016) employed a different approach -they reversed the usual process of finding differences in cognitive ability

in groups based on DSM symptoms and classifications; instead they formed groups of individuals based on their cognitive performance.

They tested cognitive abilities in a large sample of children with ASD and/or ADHD, and in non-clinical children. They aimed to reveal the "cognitive subtypes underlying clinical symptom expressions." Using LCA they identified categories from the combination of sever ures. The categories were present in the clir samples. The response speed/accuracy tradeoff was the most useful metric for differentiating between the categories.

Response speed/accuracy tradeoff differentiated between ADHD and AQ

traits in the clinical sample but not in the non-clinical sample. The current study used parallel cognitive measures to those of

in whether the categories of cognitive abilities and the centrality of

Cognitive Patterns Associated with Autism-Spectrum and ADHD Tendencies in Non-Clinical Young Adults

Regina M. Fasano, Sarah L. Bachman, John K. Burke, & Christie P. Karpiak The University of Scranton

Participants

64 University of Scranton students (20 men, 44 women)

Intern age: 18 68 years

Three participants reproted a formal diagnosis of ADHD, and 11 reported a biological sibling or parent with ADHD

Measure & Procedure

Rommelse et al. (2016) used with samples of children.

Participants completed the Autism Quotient (AQ: Baron-Cohen) and the

Conner's Adult ADHD Rating Scale (CAARS) self-report long for

Conner's Adult ADHD Rating Scale (CAARS) self-report long for Digits Forward & Backward and Trails A & B ware administered. Finally, participants completed the Attention Networking Task (AN Go/NoGo (GNG) computer-administered cognitive tasks in a counterbalanced order. In the ANT, specific keys are pressed on either side of the keybor

corresponding to the target's direction. A mid-screen cross precedes each trial with a star above it, below it, or both. Congruent, incongruen or neutral flankers then appear with the target, either in the same or opposite position of the star(s), (See Figures 1 & 2), The GNG is a classic, widely-used test of visual attention.
Response time (speed), accuracy (errors), inhibition, and short-term

and working memory were obtained for each participant from these

curacy tradeoff was calculated following the procedure outlined in Rommelse et al. (2016)

Participants reported typical scores on the AQ (M = 17.52) and all eight scales of the CAARS (Mean t-scores from 47.05 to 52.17). Scores on the AQ and CAARS were positively correlated.

Inamin Hyperact Impuls Self-Cone DSM Inamin DSM Hyper DSM total ADHD Index AD r .20 .12 .47*** .52*** .25* .17 .20 .46***

Hierarchical cluster analysis with all measures revealed three clusters. The response speed/accuracy tradeoff differed significantly between clusters (F. (2, 61) = 20.60, p. < 0.01). The clusters (F. (2, 61) = 20.60, p. < 0.01). The clusters of the clust Clusters did not differ on the AO or ADHD measures, and correlations speedscoursely indepted with No AQ and CAARS were not significant. Median splits of the AO (AO and CAARS were used to identify symptom groups: contact (high or low on both measures), high CAARS/low and low CAARS/ligh AO.

The speed(scorrapy tradeoff differed significantly between the two

divergent groups in parametric and nonparametric tests. The group with high AQ & low CAARS was more accurate (M = -.69, SD = 1.65) and the group with low AQ & high CAARS was faster (M = .49, SD = 1.62).

- Adults show correlations between traits of the autism spectrum & ADHD. Cluster analysis revealed the first three categories that were found by Rommelse et al., but not the fourth (a low speed, low accuracy group) This could be due to use of a cluster analysis (Rommelse used LCA) or university sample. In any case, the clusters in this pilot should be viewed with healthy skepticism given the sample size.
- With reasons exequicate green use sample size.

 Like the Rommelse group, we found that a simple indicator of the response time/accuracy tradeoff very clearly differed between the clusters, supporting their assertion that useful cognitive testing coul include many fewer measures than are typically administered now.
- Like the Rommelse findings for the non-clinical group, the time/accuraradeoff did not correlate with AQ and CAARS
- However, working "backward" with groups created from the AQ and CAARS, we found that the speed/accuracy tradeoff differed significantly between groups that were high on one trait and low on the other. AO traits (without ADHD traits) corresponded with high accuracy and lov

speed, while ADHD traits without AQ showed low accuracy and high speed. Eventually, cognitive testing might help separate comorbid groups from those that evidence one condition but not the other.

Fixation	+	\rightarrow \rightarrow \leftarrow \rightarrow
Cues	Spotter Cue Sio Cue Cerrent Cue Double Cue + + + + + * * * * * * * *	EONGRUENT CONGRUENT NEUTRAL
inum 1		Figure 2

Limitations

- A much larger sample size is needed; these results suggest it is
- A mucin larger samples size is necess; insee results suggest it is worthwhile to collect one. Because all participants were college students, their attention and working memory may be inherently different than an adult who never read ved higher education. Given that over two-thirds of the participants were women, gender divertibles that the participants were women, gender
- differences in cognitive abilities may have influenced the study. Students were tested at different times of the day throughout the week, which could have lead to disparities in performance due to varying levels of participants' fatique.

condenties; J.M.J. Hermer, C.A., Alfadelour, J.K. (2008). Capture profing (67) WT. Mag. T. St. berton, E., Hissotik, H., & Rischart, N. (2010), The connected degrades of ASIC and ACMO Consolitation retringers analysis of prospectives. In J.L. Malson (80.) Hambook of assosiment and degrades of automospooral deaded free, 267-2681, destroyed.

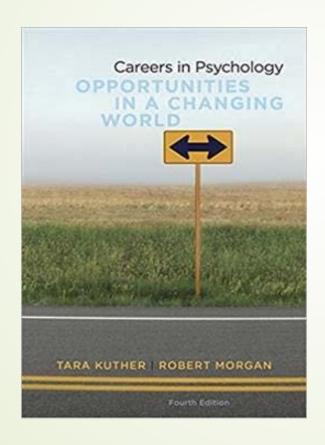
Teaching Seminar & Student-Faculty Teaching Mentorship Program

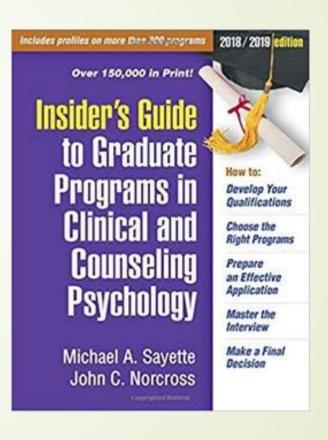




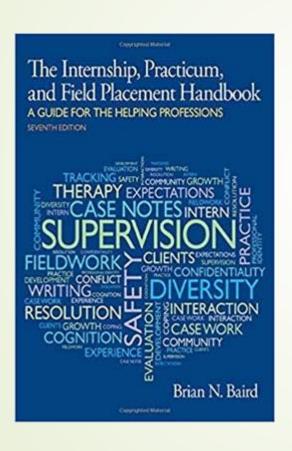
Career Development Seminar

(Fall semester of junior year)





Internships for Credit



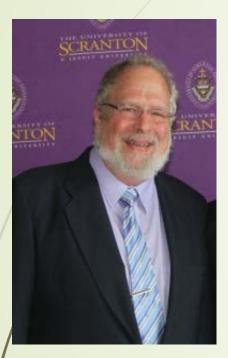
Field Experience in Clinical Settings

Students placed for academic credit in child treatment centers, psychiatric hospitals, mental health centers, substance abuse clinics, partial hospitalization programs, school districts, autism services, forensic prisons, residential facilities, group homes, and more

Field Experience in Applied Settings

Student placements in personnel offices, speech & language centers, aging agencies, wellness programs, institutional research offices, sports education, women's resource & advocacy centers

Award-Winning Professors









Two Carnegie Pennsylvania Professors of the Year

Multiple University of Scranton Provost Teaching Awards

Choose Scranton for Flexibility

Pursue what interests you

- Courses and opportunities in:
 - o Cognitive Psychology & Behavioral Neuroscience
 - o Social, Developmental, & Evolutionary Psychology
 - o Clinical, Health, & School Psychology
- Double majors & minors
- Honors programs
- Study abroad
- Summer placements



Cognitive Psychology & Behavioral Neuroscience

Some of our courses in these subjects:

Psychology of Language Cognitive Psychology Psychopharmacology Cognitive Neuroscience Sensation & Perception

(The Psychology Department comanages the Neuroscience Major)



Social, Developmental, & Evolutionary Psychology

Some of our courses in these subjects:

Lifespan Development
Evolutionary Psychology
Industrial/Organizational Psych
Environmental Psychology
Psychology of Diversity
Playful Learning
Psychology of Women

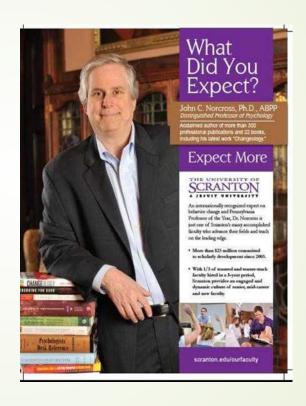




Clinical, Health, & School Psychology

Some of our courses:

Personality
Abnormal Psychology
Health Psychology
Psychological Testing
Clinical Psychology
Positive Psychology
Child Clinical Psychology
Forensic Psychology



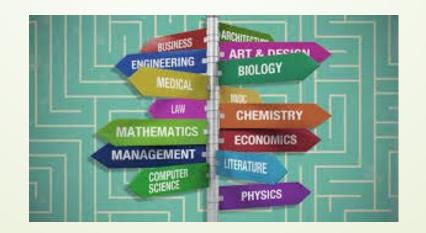




Minors & Concentrations Galore

The Department recommends that psychology majors have a minor or concertation to organize their electives, enhance their marketability, and match their career interests.

50+ possibilities, including Business, Human Services, Criminal Justice, Pre-Law, Education, Biology, and so on



Concentrations Directed by Psychology

- Lifespan Development Carole S. Slotterback, Ph.D.
- Environmental Studies Jessica M. Nolan, Ph.D.
- Integrated Data Analysis Patrick T. Orr, Ph.D.







Apply Your Knowledge

in Community-Based Learning





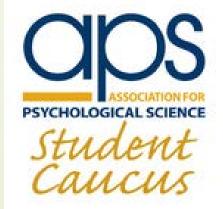
Choose Scranton for Leadership Opportunities (and Fun!)



3 Student Clubs

Annual Welcome BBQ







Christmas Toy Drive



Psychology Club

Psi Chi International Honor Society







Kids Judge! Neuroscience







Annual Senior Social







"Why I chose Scranton Psych" Our alumni speak...





Karen Hudzinski

M.S. in Consumer and Industrial Psychology, Cleveland State University

Current Position: Manager, Consumer Insights and Customer Engagement, Macy's



"One highlight of my experience as a psychology major was the time I spent on

research projects with my mentor."

Jennifer McLaren

Psy.D. in School Psychology, Alfred University

Current position: Director of Outpatient Services, Center for Autism Licensed psychologist, Certified School Psychologist



"Scranton is unique because faculty regularly mentor undergraduates as research and teaching assistants; opportunities that may not be available at larger universities with grad programs."



Ryan Pohlig

Ph.D. in Research Methodology, University of Pittsburgh

Current Position: Manager, Biostatistics Core, College of Health Sciences at the University of Delaware

"I fondly recall the interactions shared with Psych faculty members, who treated the students with a respect and dignity not often found in higher education."

Laura Rozelle

Ed.M. in School Psychology, Columbia University

Current Position: School Psychologist, MaST Community Charter School



"My time at Scranton continues to impact my everyday life in the critical thinking skills and scientific methods taught to me."



Allison Smith

Ph.D. in Clinical Psychology, University of Rhode Island

Current position: Attending Psychologist, Mayo Pediatric Pain Rehabilitation Center / Clinical Faculty, Harvard Medical School

"As a student at Scranton, I felt like I was part of

something bigger than myself. In this department...

it felt like being part of a family."

Choose Scranton for Impressive Outcomes

U of S psych graduates immediately go to:

- full-time employment (50%)
- graduate school (50%)

Flexible curriculum & individual mentoring lead to impressive career outcomes!



Affiliation with PCOM

Qualified psych majors can start their **School Psychology** M.S. or APA-accredited Psy.D. at Philadelphia College of Osteopathic Medicine after their third year.

Like the University's law school affiliations, these agreements enable students to complete a grad degree one year earlier by counting their first-year graduate credits toward completion of their B.S. degree.



Learning & Success

- Our graduates' knowledge of psychology = 75th percentile nationally
- ♦ Half of psych majors serve as Teaching Assistants
- Our majors grade the overall psychology program a 3.5





Full-time Psychology Faculty

For more information on Scranton's Psychology Department, please visit www.scranton.edu/academics/cas/psychology/

or call the Department directly at 570-941-7630.



