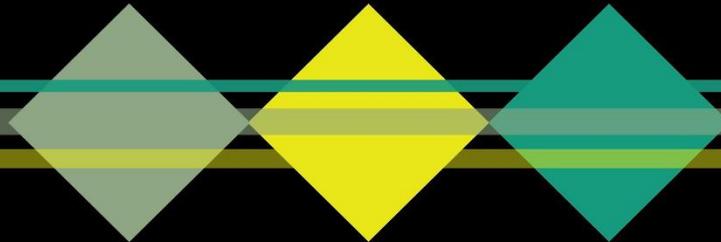


THE 2017 ATID SHOWCASE OF EXCELLENCE

# AWARDS CEREMONY





***HONORABLE MENTIONS***  
SECONDARY SCHOOL

***FAITH ZONGKER***

VINTAGE SUIT

HONORABLE MENTION - HOMESCHOOL 7<sup>TH</sup> GRADE



***LAURA KOCH***

BLUE BOHEMIAN SHIRT

HONORABLE MENTION - CHASE COUNTY 7<sup>TH</sup> GRADE



***HANNAH ROZARIO***

TEAL JACKET & SKIRT

HONORABLE MENTION - MANACAH PREP 8<sup>TH</sup> GRADE



***3<sup>RD</sup> PLACE***

SECONDARY SCHOOL



# ***ANNIE PHILLIPS***

## SKIRT & VEST

3<sup>RD</sup> PLACE - SECONDARY SCHOOL  
HOMESCHOOL 12<sup>TH</sup> GRADE





***2<sup>ND</sup> PLACE***

SECONDARY SCHOOL

***ASHLEY OLDHAM***

DARE TO SPARKLE

2<sup>ND</sup> PLACE – SECONDARY SCHOOL  
BENNINGTON HIGH 12<sup>TH</sup> GRADE

***1<sup>ST</sup> PLACE***

SECONDARY SCHOOL



***GRACE ZONGKER***

FLEECE ADVENTURE

1<sup>st</sup> PLACE – SECONDARY SCHOOL  
HOMESCHOOL 12<sup>TH</sup>



***3<sup>RD</sup> PLACE***

MOUNTED EXHIBIT  
LOWER DIVISION

# ***BROOKE ROBERTSON***

## SLEEK EXHIBITION

3<sup>RD</sup> PLACE MOUNTED EXHIBIT  
LOWER DIVISION



***2<sup>ND</sup> PLACE***

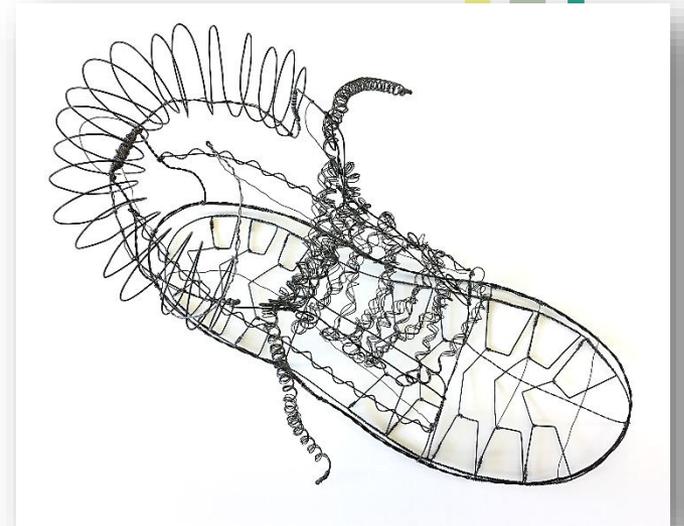
MOUNTED EXHIBIT  
LOWER DIVISION



# ***JENNIFER AST***

## WIRE SHOE

2<sup>ND</sup> PLACE MOUNTED EXHIBIT  
LOWER DIVISION



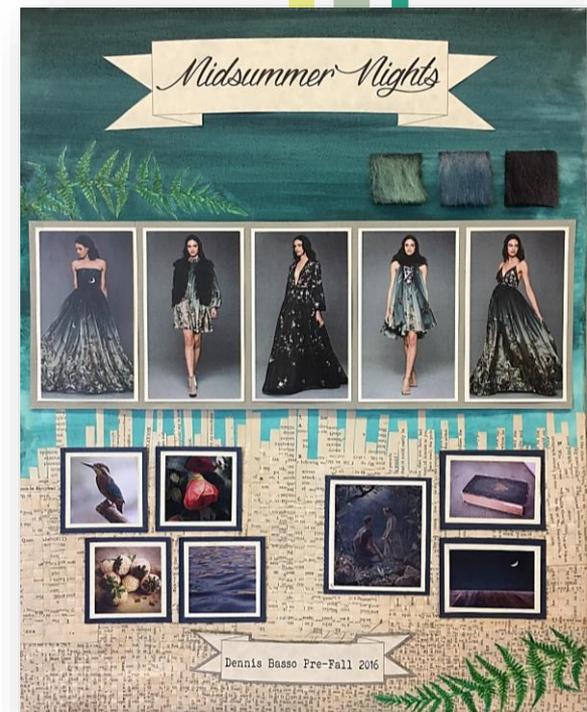


***1<sup>ST</sup> PLACE***

MOUNTED EXHIBIT  
LOWER DIVISION

***BROOKE ROBERTSON***  
***LAURA WIEBE***  
***MEGAN BRIGGS***  
***ABBY CONDREY***  
MIDSUMMER NIGHTS

1<sup>ST</sup> PLACE MOUNTED EXHIBIT  
LOWER DIVISION



***3<sup>RD</sup> PLACE***

MOUNTED EXHIBIT  
UPPER DIVISION



# AARON SIMON MAGGIE STUART MCKENZIE TIGNOR HAOQING LIU NIGHT WERQ

3<sup>RD</sup> PLACE MOUNTED EXHIBIT  
UPPER DIVISION





***2<sup>ND</sup> PLACE***

MOUNTED EXHIBIT  
UPPER DIVISION

# ALLYSON WOODARD

## BRISK AUTUMN

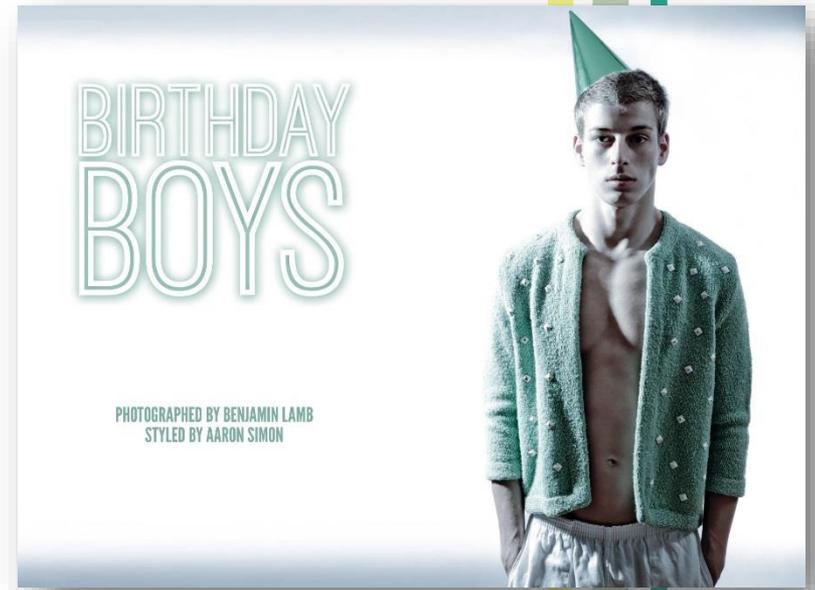
2<sup>ND</sup> PLACE MOUNTED EXHIBIT  
UPPER DIVISION



***1<sup>ST</sup> PLACE***

MOUNTED EXHIBIT  
UPPER DIVISION





# ***AARON SIMON***

## BIRTHDAY BOYS

1<sup>ST</sup> PLACE MOUNTED EXHIBIT  
UPPER DIVISION



***EXCELLENCE IN  
RESEARCH AWARD***

# SHELLI BRANNON

## LIGHT AND LEARNING:

### EFFECTS OF LIGHTING CONDITIONS ON CHILDREN WITH AUTISTIC SPECTRUM DISORDER

EXCELLENCE IN RESEARCH AWARD

SUPERVISORS: DR. JULIA DAY & DR. DEBBIE BURNETT

**LIGHT & LEARNING:**  
Effects of Lighting Conditions on Children with ASD

College of Human Ecology, Apparel, Textiles, and Interior Design  
School of Family Studies and Human Services, Program in Communication Sciences and Disorders  
Kansas State University  
Dr. Julia Day  
Dr. Debbie Burnett  
Shelli Brannon

**ABSTRACT**  
The overall objective of this research was to identify specific lighting conditions that affect children with ASD. The primary goal was to gather preliminary data to increase the likelihood of funding for a larger study. Conducting this same research, at a larger scale, has the potential to advance our understanding of environmental factors (i.e., lighting levels) contributing to ASD so that new standards can be recommended to support learning and expression of behaviors in children with ASD.

**AIMS & DETERMINING THE BEST METHODS FOR MEASURING AND RECORDING LIGHTING DATA (LUMINANCE AND DIMINANCE) IN THE FOLLOWING LIGHTING CONDITIONS: (a) with daylight only, (b) with integrated lighting, and (c) with LED recessed lighting only.**

**AIMS & DETERMINING THE EFFECTS THAT CHANGES IN CLASSROOM LIGHTING HAVE ON THE BEHAVIOR OF GROUPS OF CHILDREN WITH ASD.**

Approximately 5 preschool-aged children with ASD from the greater Manhattan, Kansas area participated in this study. In a 4-week program that consisted of two 45-minute sessions per week for a total of 8 sessions (July 5, 2016 – July 29, 2016).

**EQUIPMENT & PROGRAMS**  
CAMERA: Canon Rebel EOS T6i  
LENS: Rokinon 8mm F3.5 Fisheye Lens (180°)  
CAPTURED THROUGH: CamRanger (3x photos, 100 ISO, 1/4000 starting shutter speed)  
ILLUMINANCE DATA: HOBO data loggers (temperature/relative humidity/light/external data logger)  
LUMINANCE: Luminance Meter  
HDR PHOTOS: Photophere  
GLARE ANALYSIS: Evalglare

**BACKGROUND**  
CHILDREN WITH ASD  
Evans (2002) determined that light is key factor of the physical environment, providing direct and indirect effects on mental health, leading to both mental fatigue and restoration from stress. For children with ASD, sensory perception is heightened (Ozonoff, South, & Miller, 2000). Children with ASD have also shown a higher prevalence of stress and anxiety than their neurotypical peers (Gillott, Fumis, & Walter, 2000; Kim, Szatmari, Bryson, Streiner, & Wilson, 2000).

**DIAGNOSED WITH ASD**

**LIGHTING**  
Schools and classrooms have frequently been designed to harness natural daylight through windows or skylights due to rising building energy costs and concerns, as well as a heightened awareness of the benefits associated with providing access to daylight to students (e.g. improved test scores, increased productivity, and improved physiological well-being) (Heerwagen & Heerwagen, 1996; Mieschong et al., 2002). Light is additive, so while the electric lighting may be designed to meet lighting standards, the overall lighting conditions may be perceived as too bright for many students once natural daylight is incorporated within the space.

**DISCUSSION & NEXT STEPS**  
Limitation included: recruitment participation and their ability to commit to a 4-week enrollment. The second is the children themselves and how their behavior can vary from day to day. The third limitation is the daylight conditions, and that everyday will not be the ideal weather conditions.

Through the experiment there were some interruptions. The children were very interested in the camera and HOBO data loggers (devices that measure the illuminance) and tended to touch the technology. The participants also were inclined to turn on the lights when all of the electric lights were turned off.

Ideally, the next step in this experiment is to have another round of children participate in a 4-week session. From there we can use this larger database and compare it to the behavioral observations made by the School of Family Studies and Human Services. Once this is done the experiment can be moved to an even larger setting, and the data can be applied to classrooms and other environments for children.

**PROCEDURE & METHOD**  
Measurements took place in the largest therapy room at the Kansas State University Speech and Hearing Center in Campus Creek Complex. The room has one wall with a large south-facing window with blinds that can be raised and lowered. There is overhead fluorescent lighting, an adjustable table, and a one-way mirror, which can be covered by a curtain.  
The objective lighting data collected included measures of luminance, illuminance, blind position, and time of day. Each collected under three different lighting conditions.  
Condition 1: all lights off, window blinds fully open  
Condition 2: all lights on, window blinds fully open  
Condition 3: all lights on, window blinds fully closed

Illuminance data was recorded at desktop level and preschool table heights using the HOBO data loggers. Blind position and electric lighting conditions were noted by researcher. Luminance values were recorded via HDR photography, using also degree fisheye lens, and SLR digital camera.

Session	Time of Session	Window Blinds Position	Electric Lighting Condition
1	10:00 AM - 11:00 AM	Open	Fluorescent Lighting OFF
2	10:00 AM - 11:00 AM	Open	Fluorescent Lighting ON
3	10:00 AM - 11:00 AM	Open	Fluorescent Lighting OFF

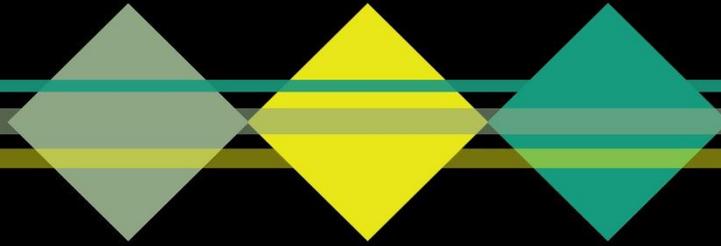
**RESULTS: COMING SOON**

**SAMPLE**

HDR & GLARE ANALYSIS

LIGHTS ON (100% BLINDS OPEN)

This series of photos shows an HDR photo from each different lighting condition and their resulting glare levels. The photos show an obvious white glare which shows how bright the light is when the blinds are open and the lights are on.



***BEST OF SHOW***

MOUNTED EXHIBIT

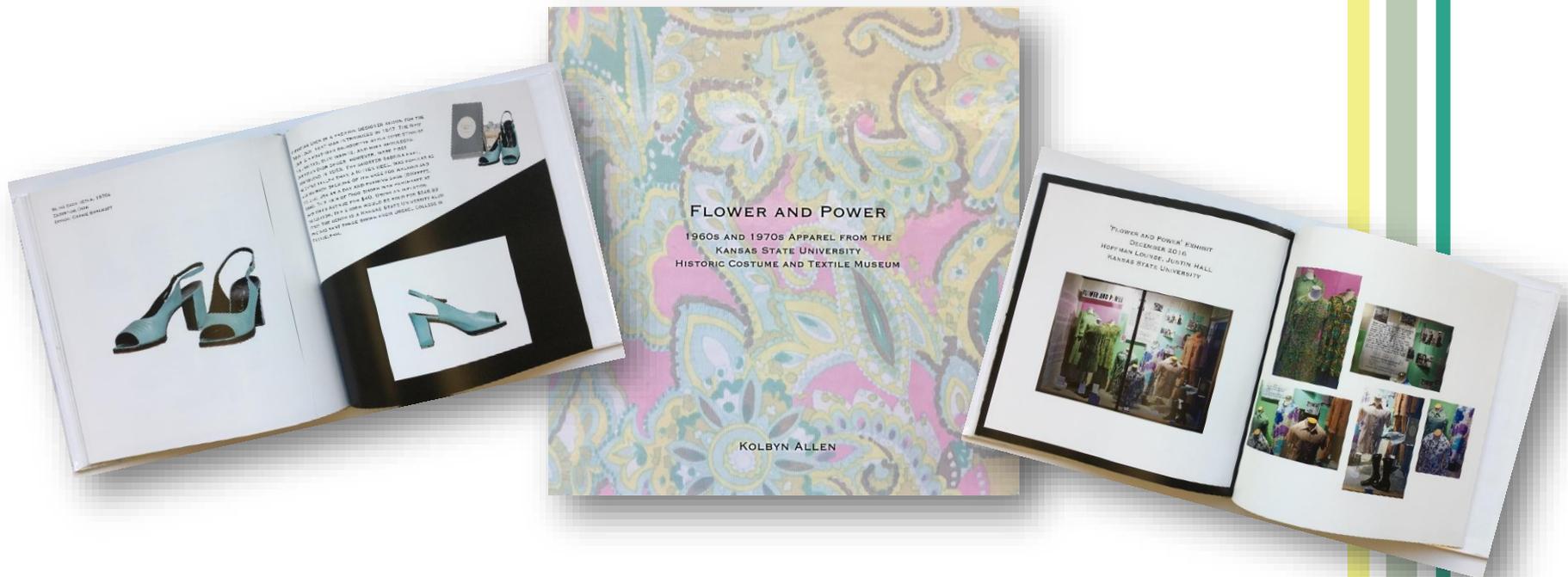
# ***KOLBYN ALLEN***

## FLOWER AND POWER:

DRESS ARTIFACT PHOTOGRAPY, CARE,  
AND EXHIBIT DESIGN

BEST OF SHOW – MOUNTED EXHIBIT

SUPERVISER: DR. GENNA REEVES-DEARMOND



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***3<sup>RD</sup> PLACE***

INSPIRED BY JANET REES

***AARON SIMON***

BOUQUET  
POUR FEMME

3<sup>RD</sup> PLACE – INSPIRED BY JANET REES



***2<sup>ND</sup> PLACE***

INSPIRED BY JANET REES

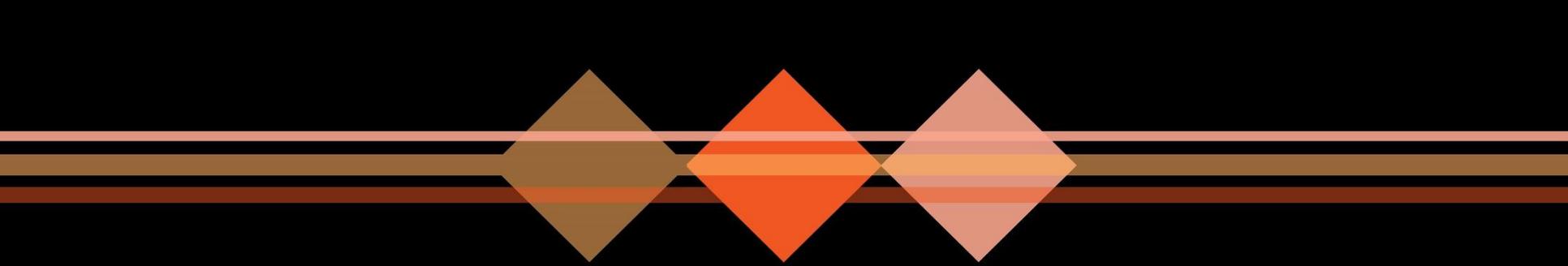


***MACKENZIE LARKIN***

THE AUDREY

2<sup>ND</sup> PLACE - INSPIRED BY JANET REES





***1<sup>ST</sup> PLACE***

INSPIRED BY JANET REES

***AMBER FALOONA***

BIANCA

1<sup>ST</sup> PLACE – INSPIRED BY JANET REES



***2<sup>ND</sup> PLACE***

RUNWAY SHOW  
LOWER DIVISION



***KATIE BUHLER***

FLOCKED FLORAL &  
BEADED PURPLE DRESS

2<sup>ND</sup> PLACE RUNWAY SHOW  
LOWER DIVISION

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***1<sup>ST</sup> PLACE***

RUNWAY SHOW  
LOWER DIVISION

***MARGARET BAUGHMAN***

WESTERN NIGHTS

1<sup>ST</sup> PLACE RUNWAY SHOW  
LOWER DIVISION

***3<sup>RD</sup> PLACE***

RUNWAY SHOW  
UPPER DIVISION



***LOUIS SCHULER***

LITHE LORICA

3<sup>RD</sup> PLACE RUNWAY SHOW  
UPPER DIVISION





***2<sup>ND</sup> PLACE***

RUNWAY SHOW  
UPPER DIVISION

***SCHYLER SLAVEN***

BONGEE

2<sup>ND</sup> PLACE RUNWAY SHOW  
UPPER DIVISION



***1<sup>ST</sup> PLACE***

RUNWAY SHOW  
UPPER DIVISION

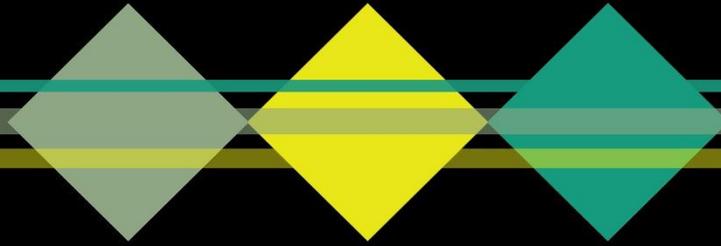


***EMILY ANDREWS***

MORE THAN THE SUM  
OF MY PARTS

1<sup>ST</sup> PLACE RUNWAY SHOW  
UPPER DIVISION





# ***BEST OF SHOW***

RUNWAY SHOW

***BROOKE WALLACE***

***EMILY SANDERS***

***MARIA ZARINA DOMINGO***

***YELEI YANG***

KALEIDOSCOPE

BEST OF SHOW – RUNWAY SHOW

***THANK YOU  
& GOODNIGHT!***

