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Attitudes of Recognizable and Unrecognizable Disabilities in Various Contexts

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INTRODUCTION

- One in four adults have a disability (Okoro et al., 2018)
- Recognizable v. Unrecognizable Disabilities
 - Recognizable disabilities**— a disability or health condition that is observable.
 - Unrecognizable disabilities**— a disability or health condition that is not immediately observable or easily identified.
- Categorizing people into groups is unavoidable and underlie attitude and prejudice formation (Allport, 1954)
- When considering disability attitudes, does context matter?
 - Hergenrather and Rhodes (2007): attitudes differ when contexts differ (i.e. dating, marriage, and work)
 - But did not investigate the type of disability or explore the classroom context

THE CURRENT STUDY

- The purpose of the study is to explore whether undergraduate student attitudes toward persons with disabilities vary according to disability type and the context**
 - Extends Hergenrather and Rhodes's** research by **specifying different disability types**: recognizable (e.g. uses a wheelchair, is Deaf and/or Blind), unrecognizable psychological disability (depression/anxiety), and unrecognizable neurological condition (ADHD).
 - Also **adds classroom context**, creating four situational contexts (i.e., dating, marriage, work, and classroom).

HYPOTHESES

Main Hypotheses

- H1: Disability type X Context**
 - Work Context**
 - Recognizable > Unrecognizable Mental > Unrecognizable Neurological
 - Classroom Context**
 - Recognizable > Unrecognizable Mental > Unrecognizable Neurological
 - Dating Context**
 - Unrecognizable Mental > Recognizable > Unrecognizable Neurological
 - Marriage Context**
 - Unrecognizable Mental > Recognizable > Unrecognizable Neurological
- H2: Main Effect: Disability type**
 - Recognizable Disabilities > Unrecognizable Disabilities
 - Mental disabilities (e.g. anxiety, depression) > Neurological disabilities (e.g. ADHD)
- H3: Main Effect: Context**
 - Work = Classroom > Marriage > Dating

Exploratory Factors expected to impact the main hypotheses

- Role of Gender**
 - Female participants will have more positive attitudes than males
- Role of Sexual Orientation**
 - Sexual minorities will have more positive attitudes than heterosexuals
- Role of Disability Status**
 - Disabled participants will have more positive attitudes than non-disabled participants

METHOD

Participants

- 258 undergraduates enrolled at California State Polytechnic University, Humboldt
- Gender**: 173 female, 54 male, 31 non-binary
- Sexuality**: 131 Straight, 127 LGBTQ+
- Disability Status**: 129 Yes, 129 No

METHOD (cont.)

Measure

- Modified Disability Social Relations Generalized Scale (DSRGD; Grand et al., 1982)**
 - 4 contexts measuring one's willingness to Date, Marry, and Work (job/classroom) on a 4-point Likert scale (1= Strongly Disagree, 4= Strongly Agree)
 - Example Dating Question**

"When dating a person who/with *[uses a wheelchair, is Deaf, and/or Blind; depression and/or anxiety; Attention-deficit/hyperactivity disorder (ADD/ADHD)]* I would not feel uncomfortable if people would stare."

- Example Work/Class Question**

"In the [workplace; classroom], I would not expect a co-worker who/with *[uses a wheelchair, is Deaf, and/or Blind; depression and/or anxiety; Attention-deficit/hyperactivity disorder (ADD/ADHD)]* to require extra help and attention that would disrupt normal activities."

Design

- 3 Disability Type X 4 Context within-subjects design
 - 3 Disability types**: recognizable (e.g. wheelchair users, Deafness and/or Blindness), unrecognizable mental/psychological (depression and anxiety), unrecognizable neurological (ADHD)
 - 4 Contexts**: Dating, Marriage, Work, Classroom

Procedure

- Participants completed the modified DSRGD questions followed by a demographic questionnaire via an online Qualtrics link for approx. 30min.

RESULTS

Data were analyzed using R (R Development Core Team, 2009) and the R packages lme4 (Bates & Maechler, 2009) and languageR (Baayen, 2009; cf. Baayen, 2008).

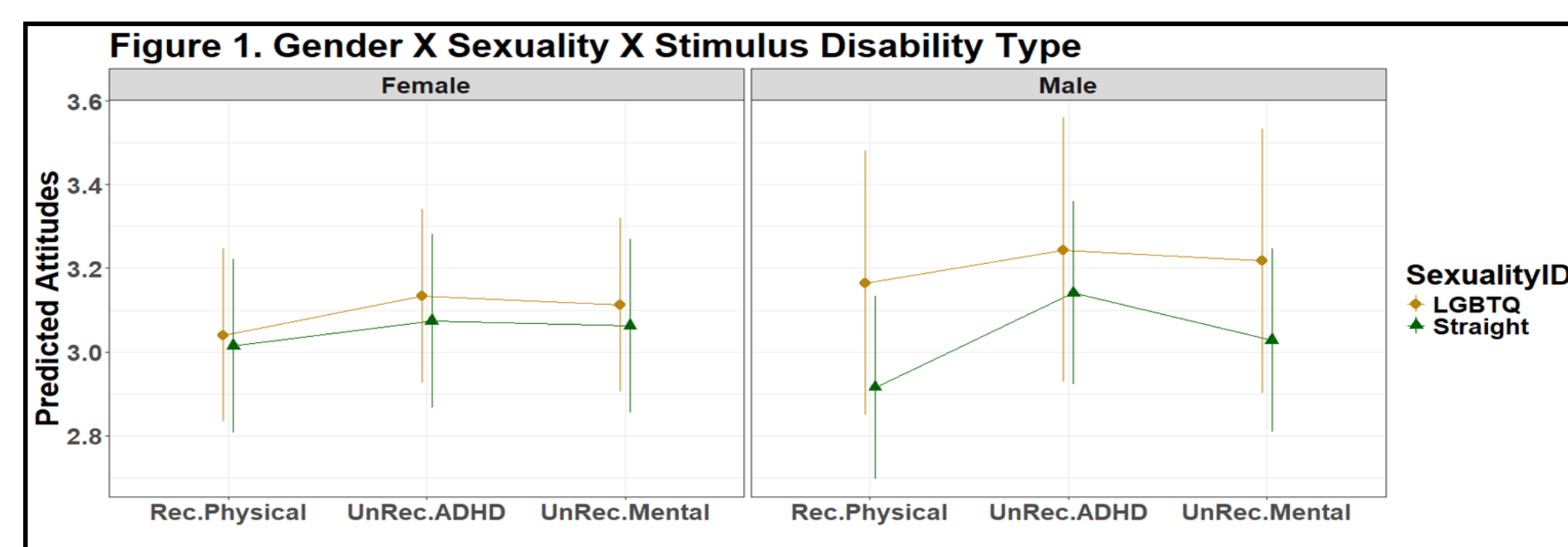
Main Analysis

- Disability type X Context analysis = Non-significant

Exploratory Analysis

All models started with the highest level interaction. Non-significant interactions and main effects (provided they were not part of a larger interaction) were removed until only significant terms were present.

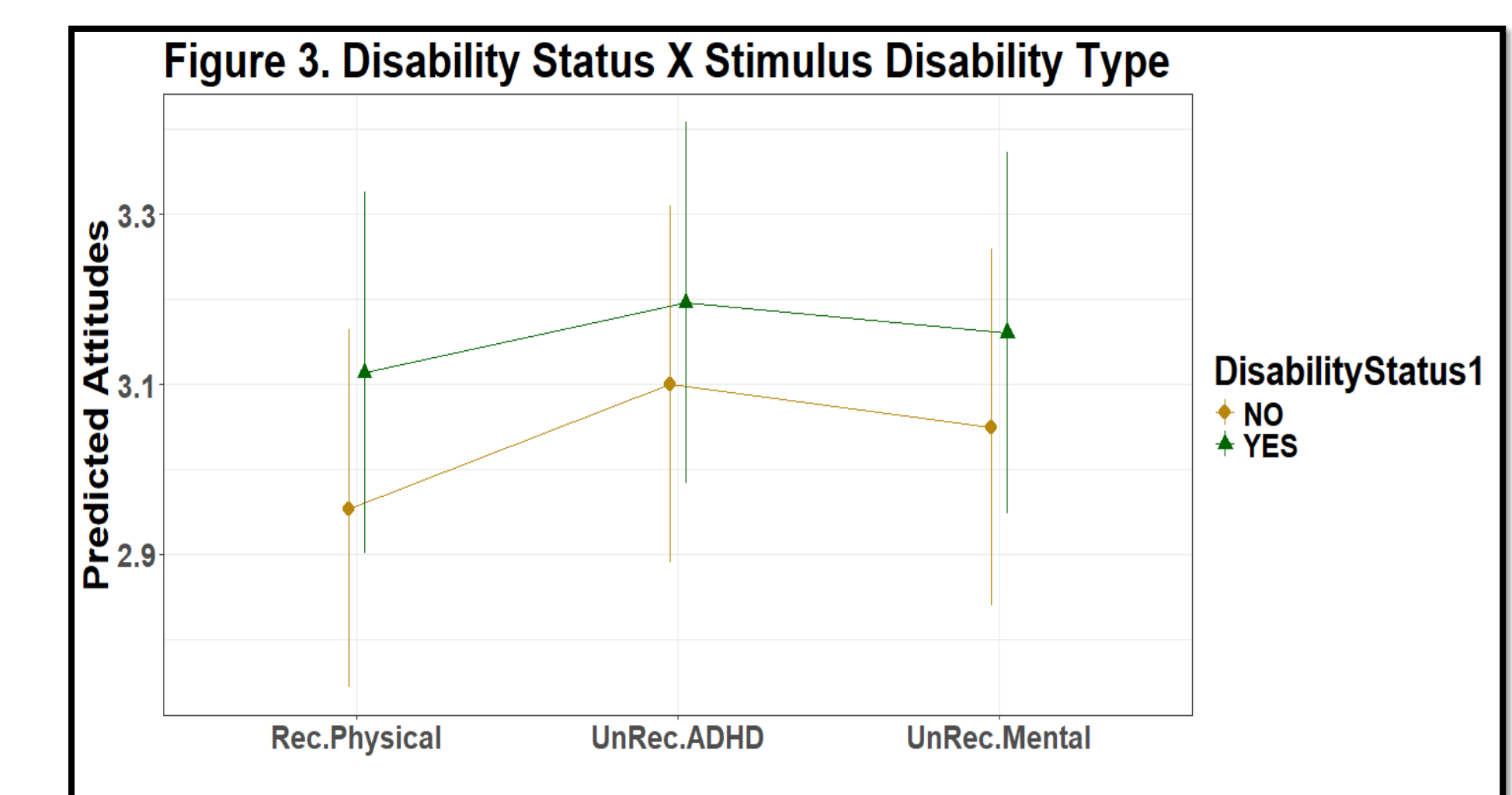
- Final Model**: $\text{lmer}(\text{Rating} \sim \text{Stimulus.Context} * \text{GenderID} * \text{SexualityID} + \text{Stimulus.Disability.Type} * \text{GenderID} * \text{SexualityID} + \text{Stimulus.Disability.Type} * \text{DisabilityStatus} + (1 + \text{GenderID1} + \text{SexualityID1} + \text{DisabilityStatus1} | \text{Subject}) + (1 | \text{QuestionType}), \text{dat} = \text{data})$
 - Gender X Sexuality X Stimulus Disability Type**
 - $\beta = 1.81\text{e-}01$, $\text{Std. error} = 8.78\text{e-}02$, $t\text{-value} = 2.06$, $p < 0.04$, **See Fig. 1**
 - Straight Males: have more positive attitudes for Unrecognizable disabilities (i.e. ADHD) as compared to Recognizable physical disabilities.
 - Gender X Sexuality X Stimulus.Context**
 - $\beta = 2.90\text{e-}01$, $\text{Std. error} = 1.01\text{e-}01$, $t\text{-value} = 2.89$, $p < 0.004$, **See Fig. 2**
 - LGBTQ females have more positive attitudes concerning marriage with a disabled person than straight females.
 - LGBTQ males have more positive attitudes concerning dating a disabled person than straight males.



RESULTS



- Stimulus.Disability.Type X Disability Status**
 - $\beta = 6.45\text{e-}02$, $\text{Std. error} = 3.03\text{e-}02$, $t\text{-value} = 1.26\text{e+}4$, $p < 0.03$, **See Fig. 3**
 - Persons who do not have a disability have more negative attitudes towards persons with recognizable physical disabilities than disabled persons



DISCUSSION

- Research in the varied nature of disabilities, especially unrecognizable disabilities is under studied.
- Main hypotheses not supported, but
- Exploratory analysis revealed that the relationship context, disability type, gender, sexuality, and disability status of the rater impact one's attitudes towards those with disabilities.**
- Limitations and Future Directions**
 - Contact and Knowledge**: not controlled, but may play a role in attitudes
 - Disability status and type**: One's own disability may impact attitudes towards others for the same, different disability differently
 - Disability type**: This research highlighted two types of unrecognizable disabilities (psychological and neurological). It is not expected that the results will generalize to all types of psychological or neurological disabilities.
 - E.g. Depression and Anxiety may be seen more favorably than schizophrenia; ADHD may be seen as more favorable than Autism.

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