Classroom Social Networks in Early Childhood Education

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Acknowledgement

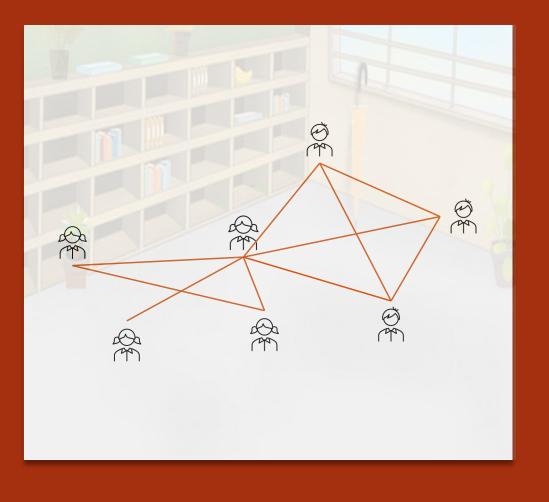
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Classroom Social Network

Social connections with peers in the classroom

- Composed of learners and various forms of social connections
- Structural
- Shaped by learners and contexts
- Influence learning and development
- Dynamic and changing



Why Should We Understand Young Children's Social Networks?

- Young children form various social experiences with their classroom peers
 - Friendship (Quinn & Hennessy, 2009)
 - Aggression and victimization (Kirves et al., 2012; Ladd et al., 2017)
- Early social experiences are vital to children's social and academic development (Domitrovich, Durlak, Staley, & Weissberg, 2017)



What percentage of children have at least one best friend in a preschool classroom?

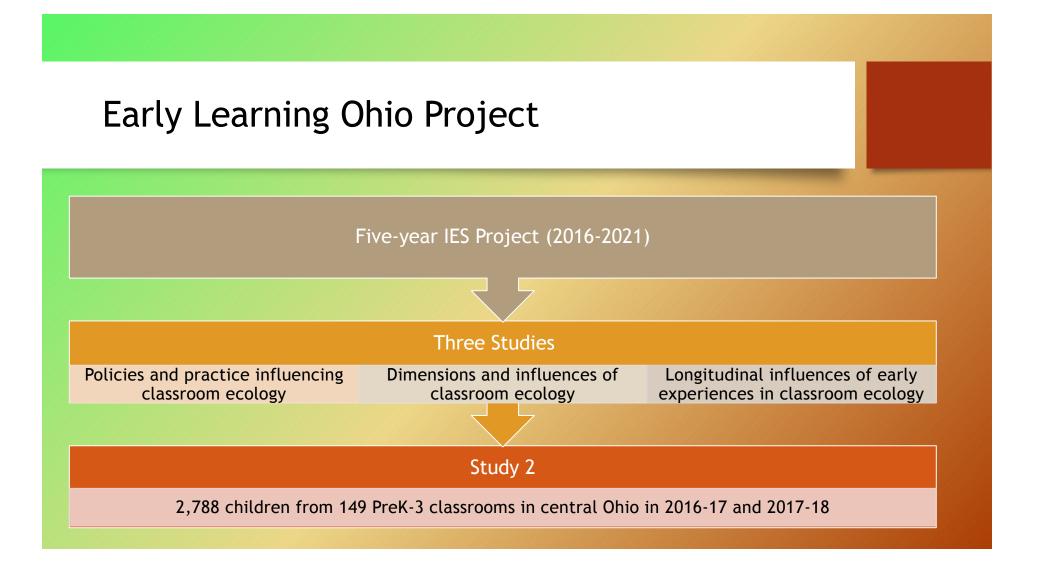
- 1. <20%
- 2. 20-40%
- 3. 40-60%
- 4. >60%

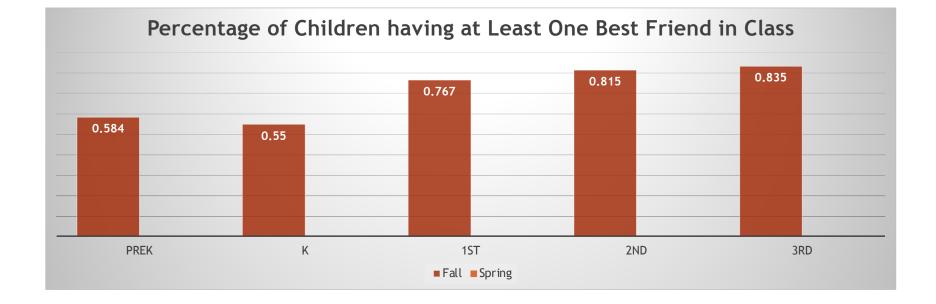
Poll

What percentage of children are 'moderate victims' in a preschool classroom?

- 1. < 10%
- 2. 10-20%
- 3. 20-30%
- 4. >30%

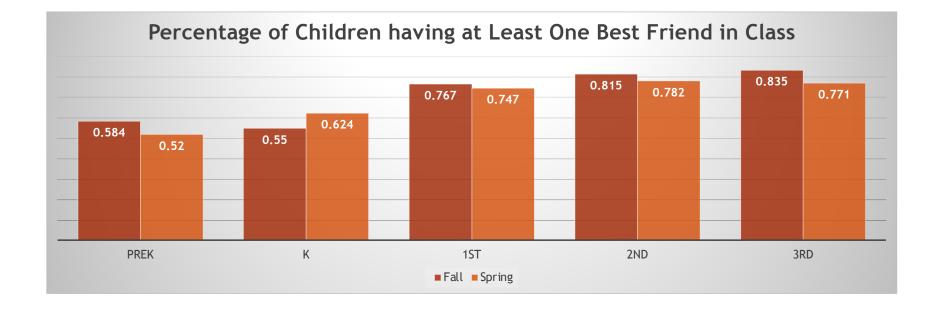
0 = never, 1 = sometimes, 2 = a lot





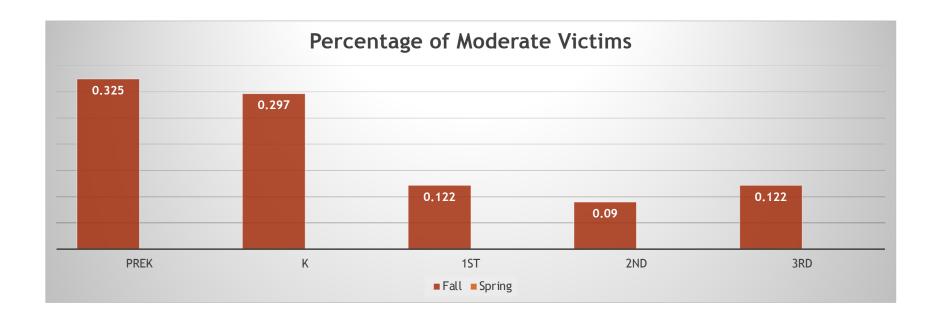
Best Friends in Class

Peer Nomination



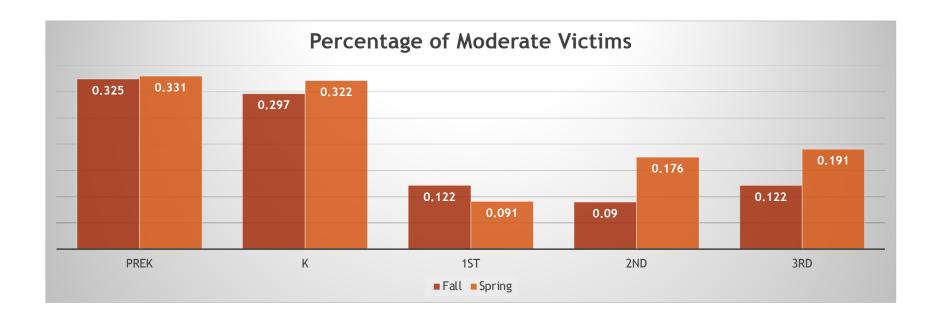
Best Friends in Class

Peer Nomination



Peer Victimization

Self-report of being hit, picked on, said mean things, talked behind the back



Peer Victimization

Self-report of being hit, picked on, said mean things, talked behind the back





Who do children form social networks in the classroom?







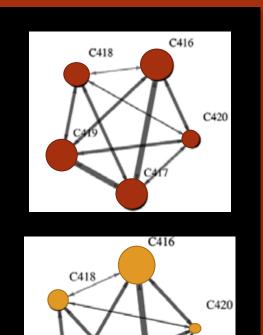
Gender and Behavior

- Gender homophily
 - Occurred as early as 2 years old, and increase over time
- Homophily of Children with Problem Behaviors

Lin et al. (2016) in ECRQ; Chen, Lin, et al., (2017) in JADD; Xiao et al. (2019) in Sex Roles

How About more Malleable Child Characteristics?

- 270 children from 61 rural preschool classrooms
- Frequency of play was rated by classroom teachers
- Children interacted more frequently with peers who
 - demonstrated similar learning-related behaviors
 - share similar language and literacy skills



= Learning-related behavior

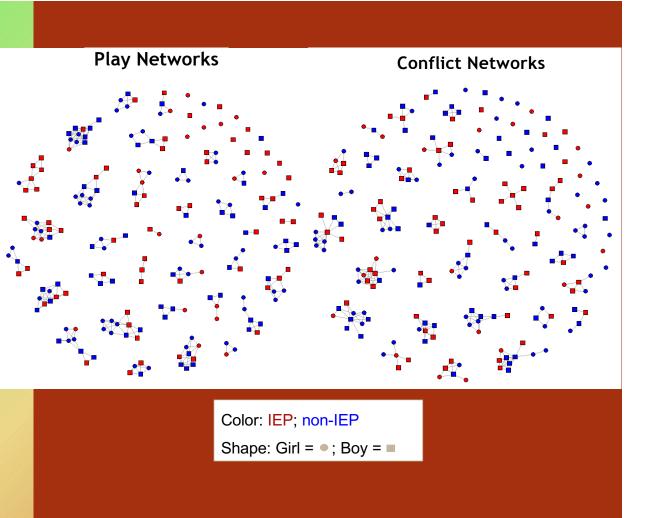
= Language and literacy skills

Lin et al. (2016) in ECRQ

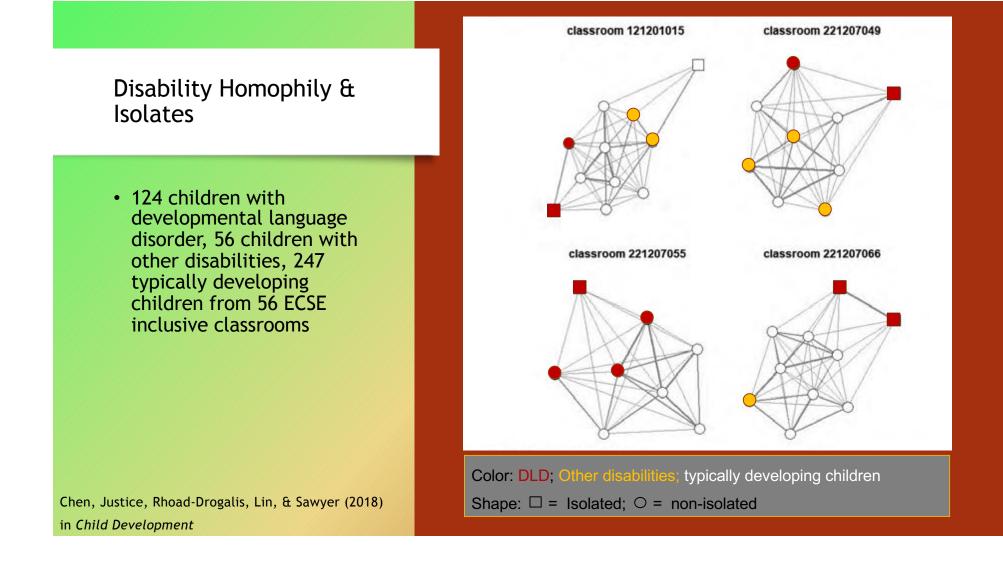
Disability Homophily

 Children from 29 early childhood special education (ECSE) classrooms from Head Start, state-funded, and private programs

 Teachers rated frequency of play and conflict between each pair of children



Chen, Lin, et al. (2017) in JADD

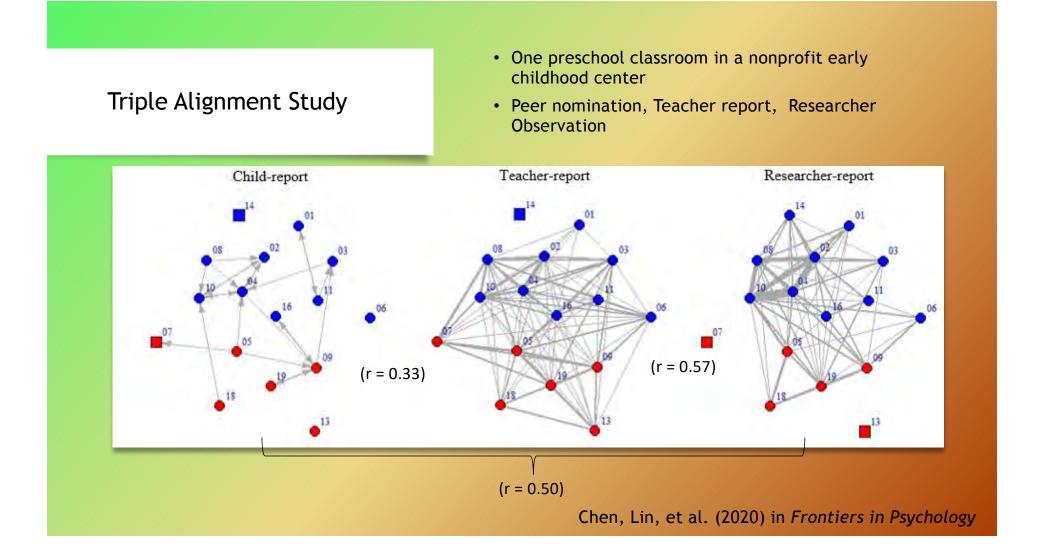




- Pragmatic language and self-regulation were significant positive predictors of cross-status play interactions
- Pragmatic language had a stronger positive effect on the probability for children with disabilities to form cross-status interactions than it did for typically developing children

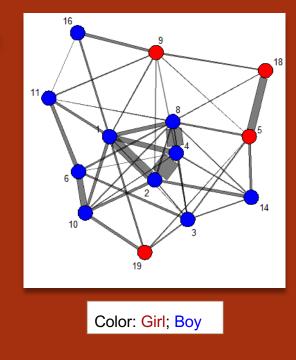


Do Children and Teachers Perceive Classroom Social Networks in the same way?

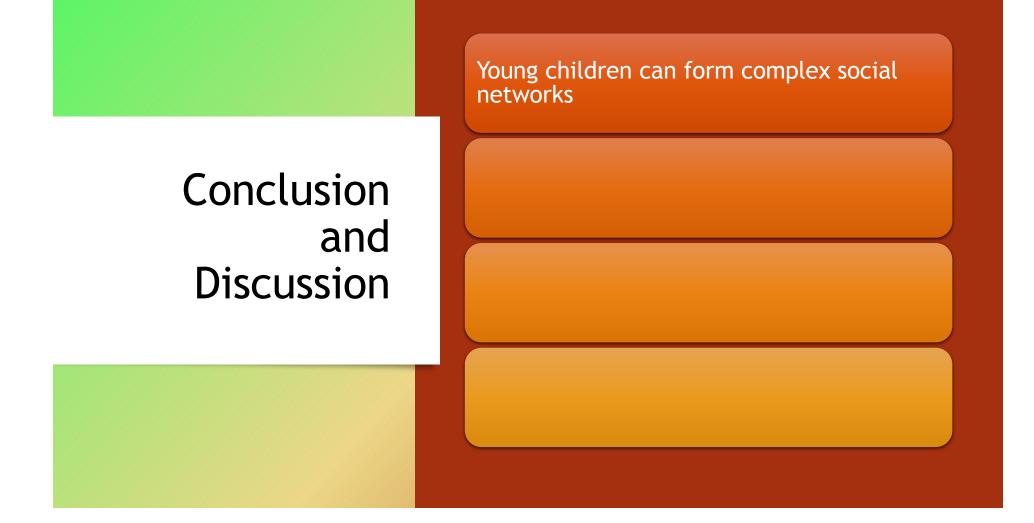


Teacher's Conflict Intervention

- Conflicts were identified from the video recordings of children wear a head-mounted camera during one of the observation days
- A total of 159 peer conflicts were identified over a four-day period in the fall of the academic year
- Teachers only intervened in 27 conflicts, most of which did not yield a positive conflict outcome



Myrtil, Lin, et al. (accepted with minor revision) in ECRQ



Conclusion and Discussion

Young children can form complex social networks

Their tendency to associate with likeminded peers may lead to segregated classroom social networks

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Teachers' sensitivity to children's perspectives can help them enact social practices more effectively in the classroom