Observing Teacher-Child Interactions Using the CLASS Pre-K in German Preschool Classrooms

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Study Aims

- Extend existing research on the quality of early childhood education programs in Germany using a relatively new measure, the Classroom Assessment Scoring System CLASS Pre-K
- Examine factors that may contribute to quality



The German Preschool Context

- compulsory formal education starts around the age of six
- early child care and education: free play dominates
- attendance rate:
 - ✓ 20% of children under the age of three
 - ✓ 92% of all 3- to 6-year old children
- no homogeneous preschool teacher training program

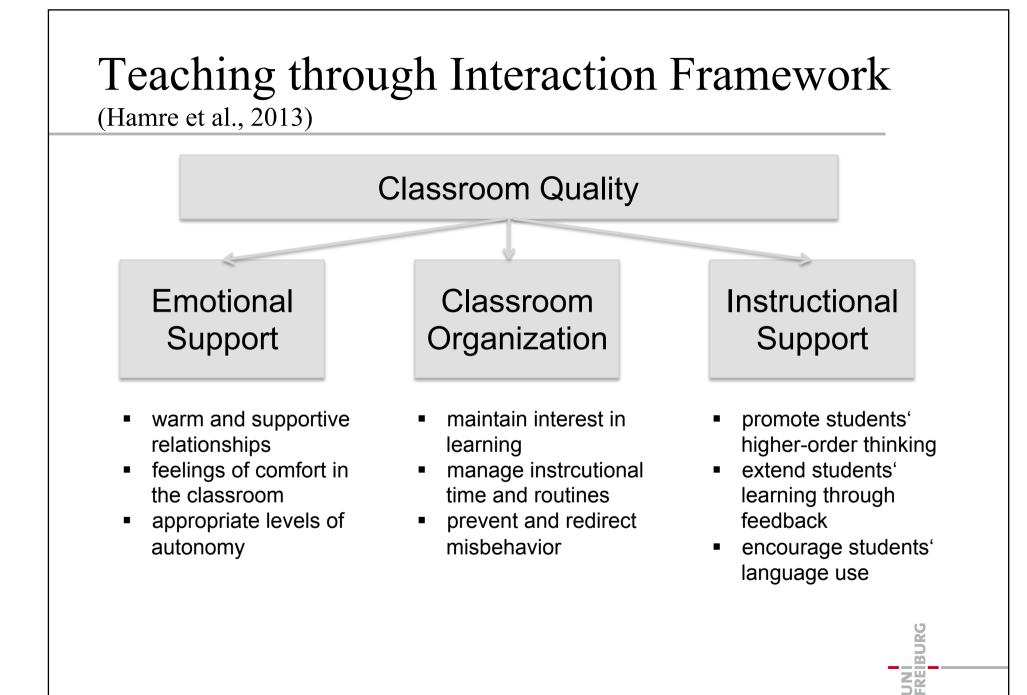
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Theoretical Background

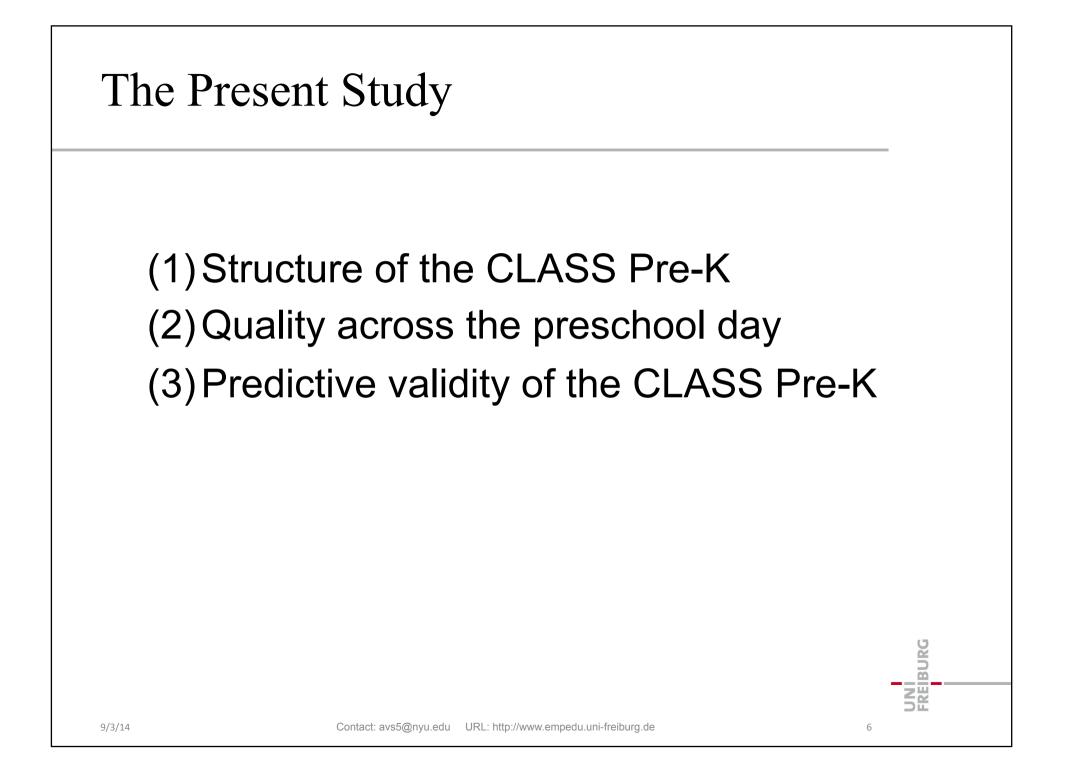
- Interactive and contextual nature of development and learning (Bronfenbrenner & Morris, 1998; Vygotsky, 1978)
- Teacher-child-interactions as primary mechanisms through which children learn in classrooms

(Curby et al., 2009)

 Teaching through Interaction framework (Hamre et al., 2013)



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Sample

 63 teachers from classrooms in 26 preschools in Freiburg



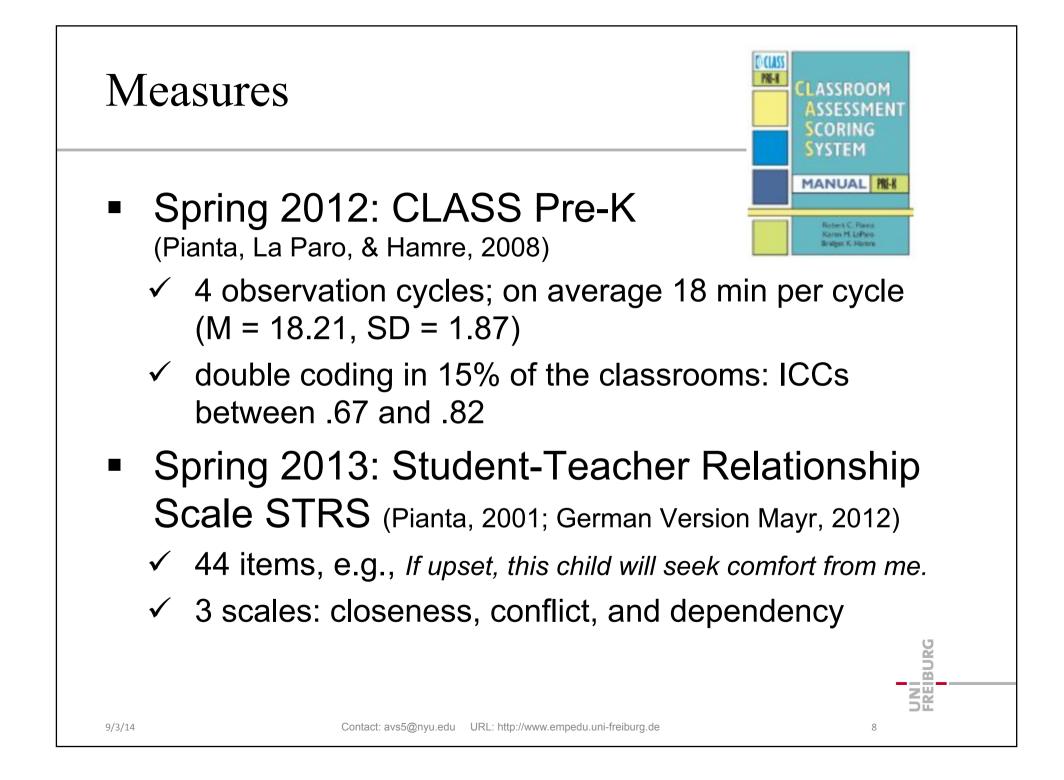
- ✓ cluster size: 2.4 teachers per preschool
- ✓ teacher age: M_{age} = 36 years, SD_{age} = 9.72
- ✓ average class size: 21 children, 50% of children being boys

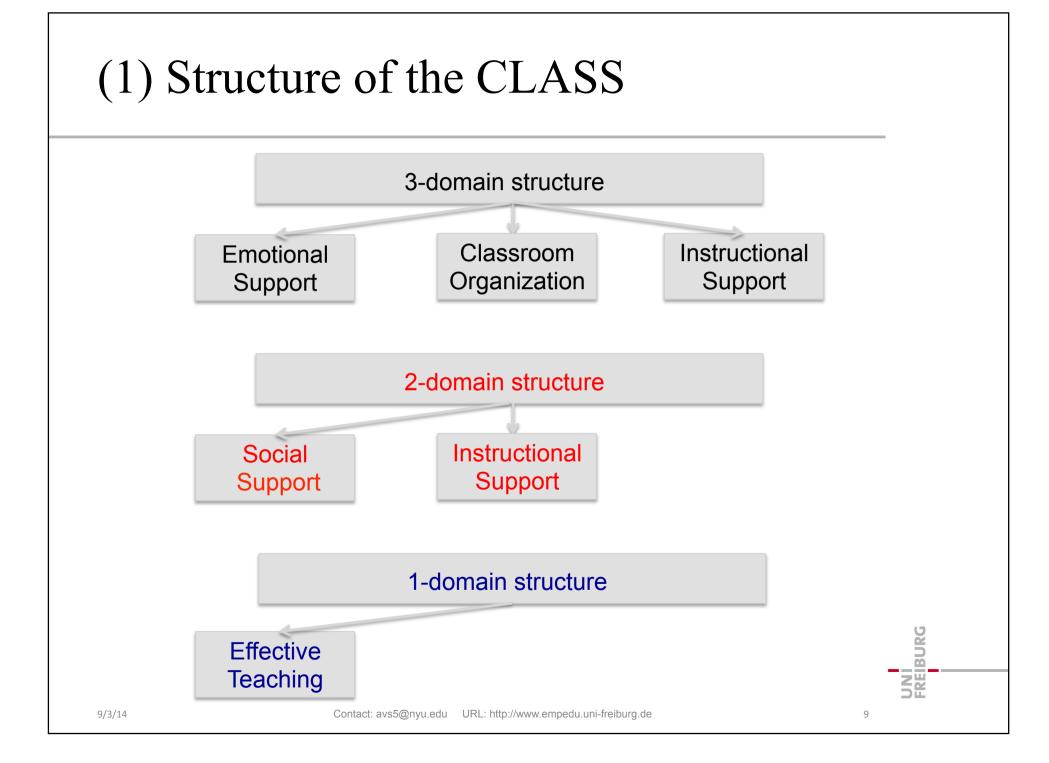
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 ✓ all classrooms were monolingual German

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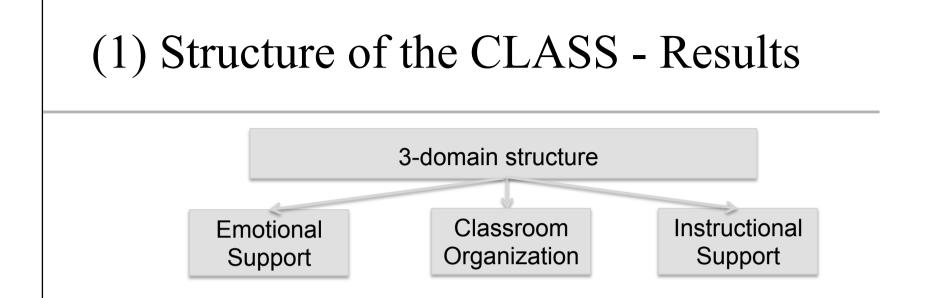




(1) Structure of the CLASS - Results

Model	χ2	df	CFI	RMSEA	SRMR
1. Effective teaching	89.91***	35	.85	.16	.07
2. Social and					
instructional support	66.41***	34	.91	.12	.06
3. Teaching through					
interactions	56.94**	32	.93	.11	.06
<i>te.</i> ** $p < .01$. *** $p < .001$. e pattern of results was replication inchedoletz, Fäsche, Gunzenhauser,		-	Ihood Rese	earch Quarterly)	UNI FREIBURG

Table 1. Fit Statistics of the Different CFAs

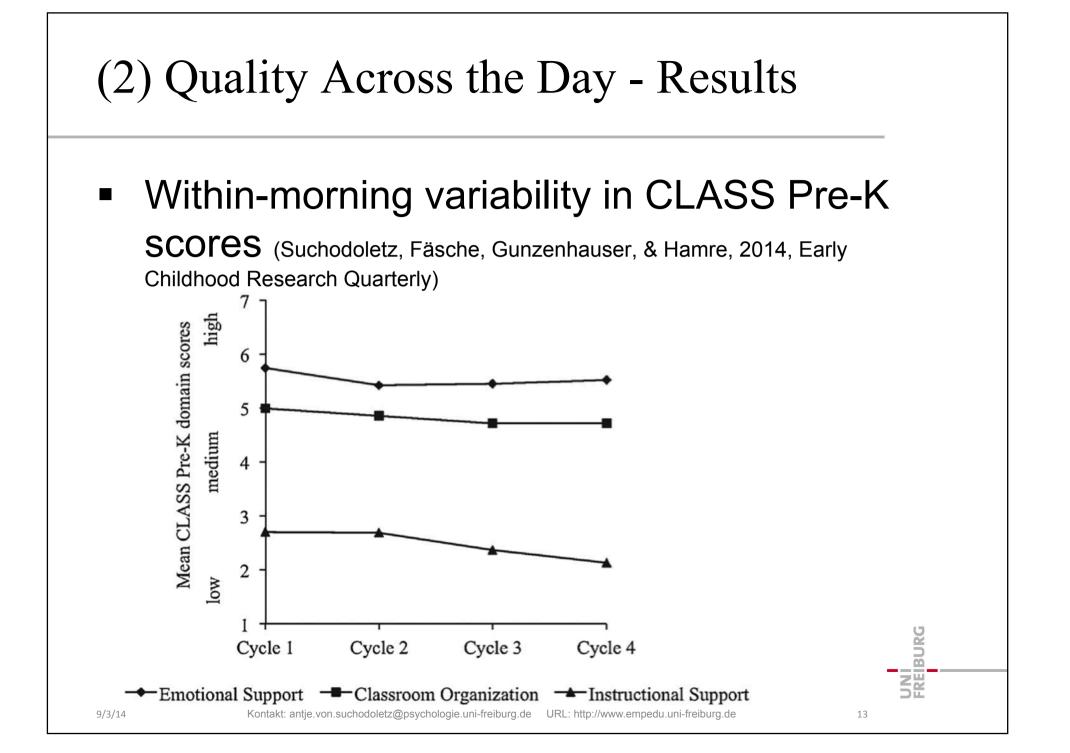




(2) Quality Across the Day - Results

*	v			
	М	SD	α	Range
Emotional support	5.54	0.65	.82	
Positive climate	5.38	0.95		2-7
Negative climate	6.02	0.27		6-7
Teacher sensitivity	5.04	0.89		2-7
Regard for student	4.86	0.90		3-7
perspective				
assroom organization	4.82	0.87	.81	
Behavior management	5.30	0.99		3-7
Productivity	4.92	1.10		2-7
Instructional learning formats	4.23	0.97		2-6
structional support	2.47	0.68	.83	
Concept development	2.17	0.78		1-4
Quality of feedback	2.52	0.81		1-5
Language modeling	2.73	0.76		1-4

Table 2. Descriptive Statistics for the CLASS Pre-K



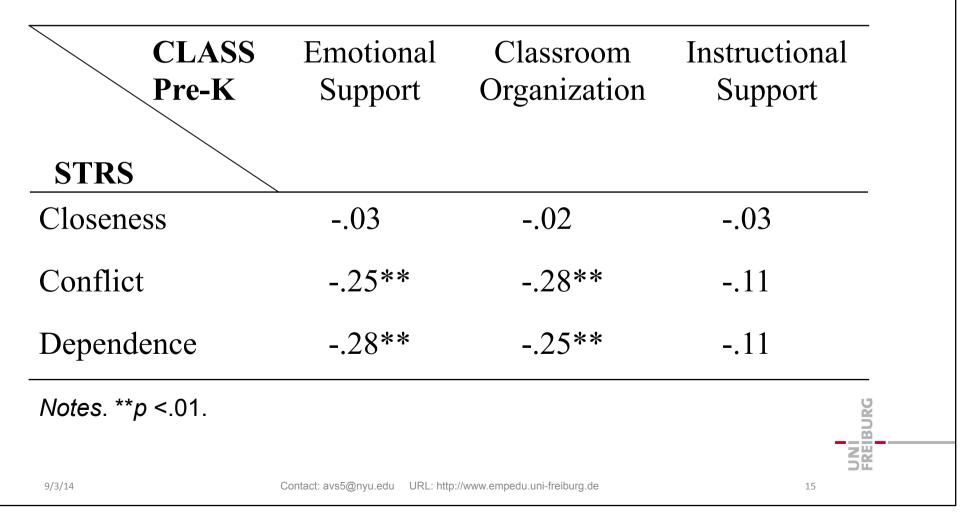
(2) Quality Across the Day - Results

- Teacher, classroom, and program features related to within-morning variability in CLASS Pre-K scores:
 - ✓ Teacher-child ratio was negatively associated with the intercept and slope of *Emotional Support*
 - Program structure (i.e., length of the school day) partially explained the decline of *Instructional Support*



(3) Predictive Validity - Results

Table 3. Correlations between CLASS Pre-K Scores andTeacher-rated Relationships with Students (STRS)



Conclusions

Structure and Validity of the CLASS Pre-K

- Teaching through Interaction framework reflects the reality of teacher-child interactions in German preschool classrooms
- preliminary evidence for three-domain structure and validity of CLASS Pre-K ratings

Classroom Quality

- variability classroom quality
- only few high-quality classrooms
- decrease in quality over the morning

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Practical Implications

- CLASS Pre-K can be used a an instrument to evaluate classroom quality in Germany
- Providing additional international examples and training videos might help to improve the CLASS Pre-K training and make it a better fit for international use
- Professional development/interventions need to include the promotion of high-level instructional support