

Parental Role-Strain and Vocal Turn-Taking Development in Autistic Toddlers

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Social Development In A Family System

- Toddlers learn social skills through their interactions with caregivers.
- Autistic toddlers engage in vocal turn-taking differently than neurotypical infants do (e.g., they engage in less synchronous speech).
- Caregivers are sensitive responders to toddler actions, but elevated levels of stress and role strain reduce caregiver responsiveness.

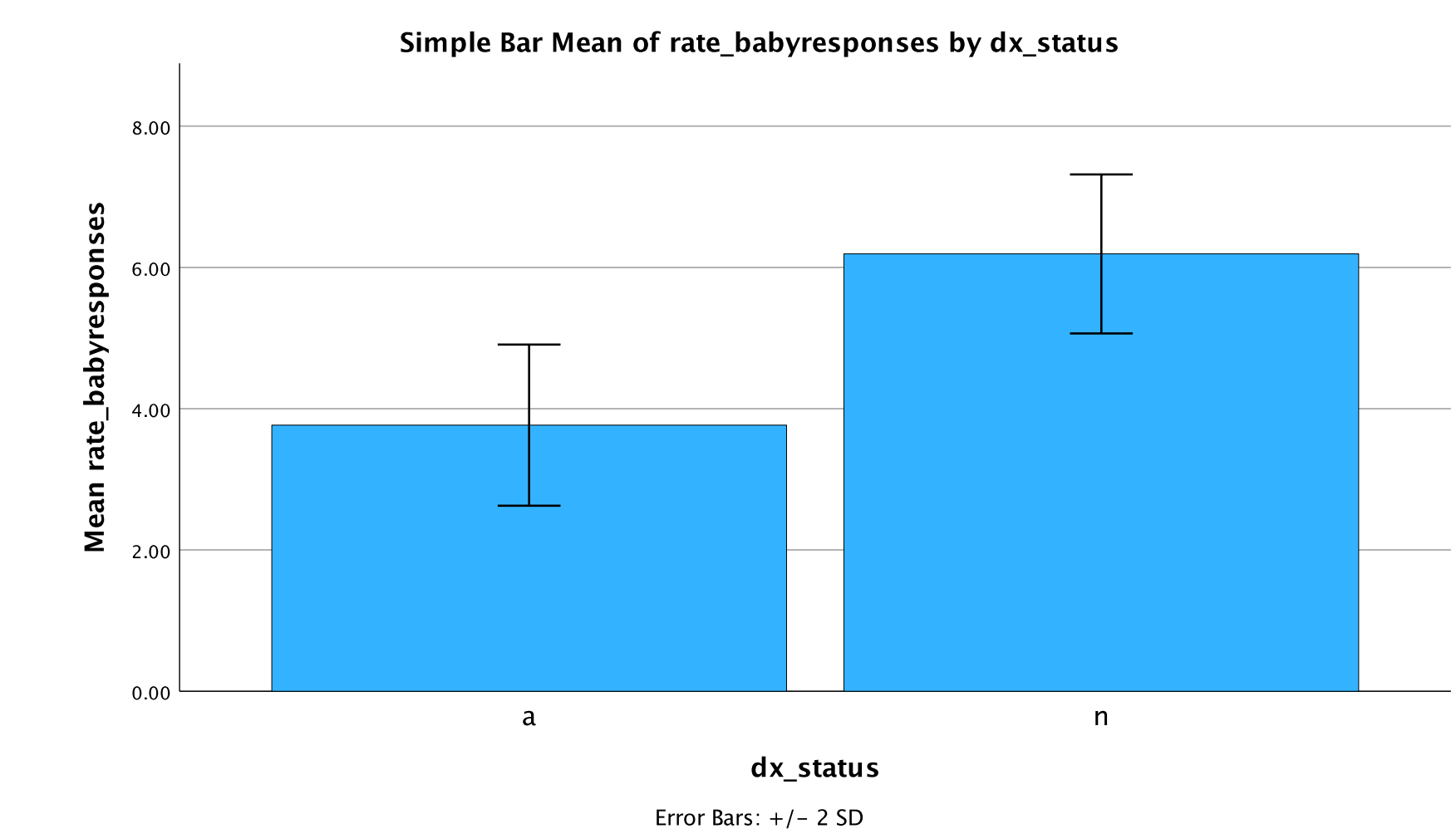
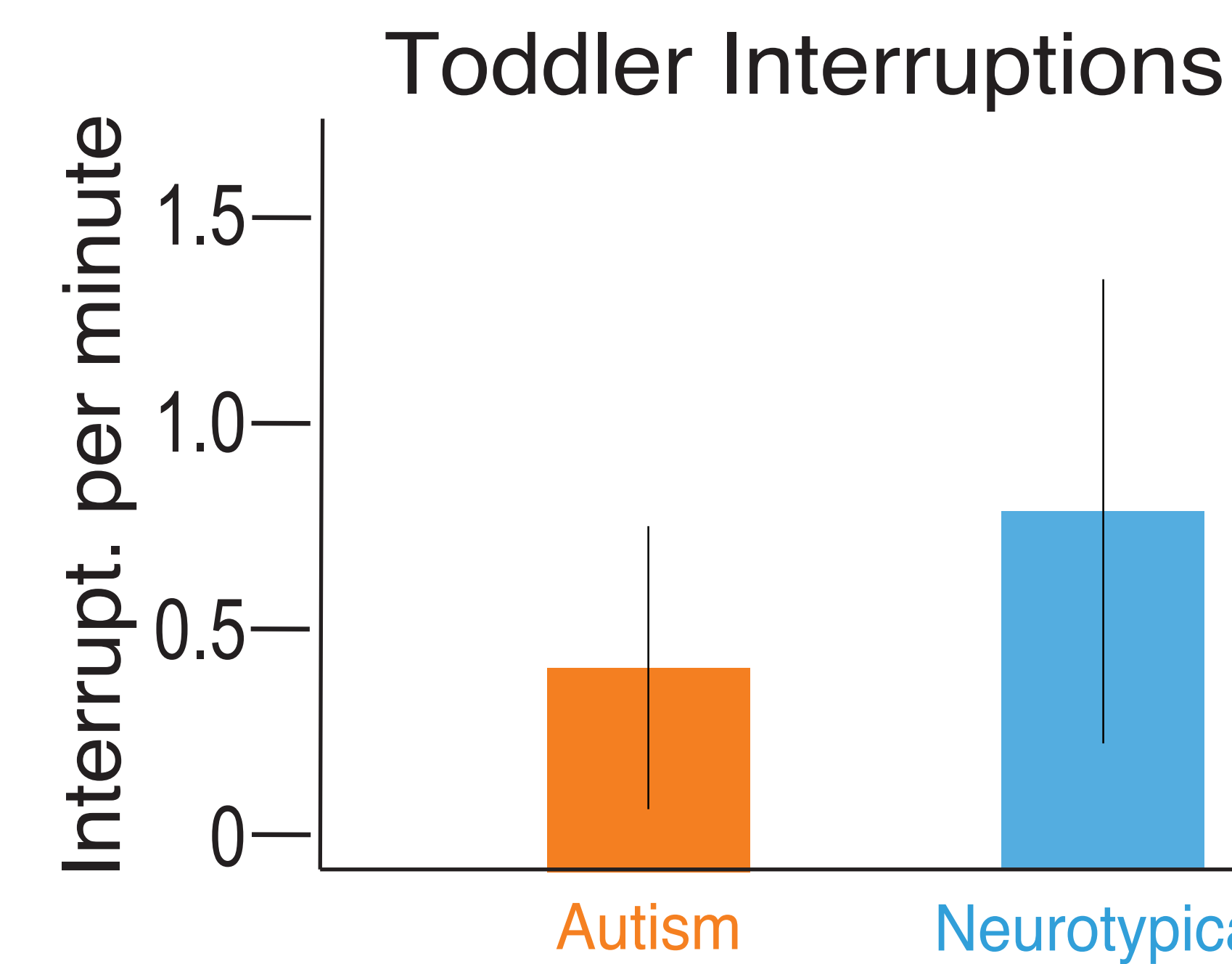
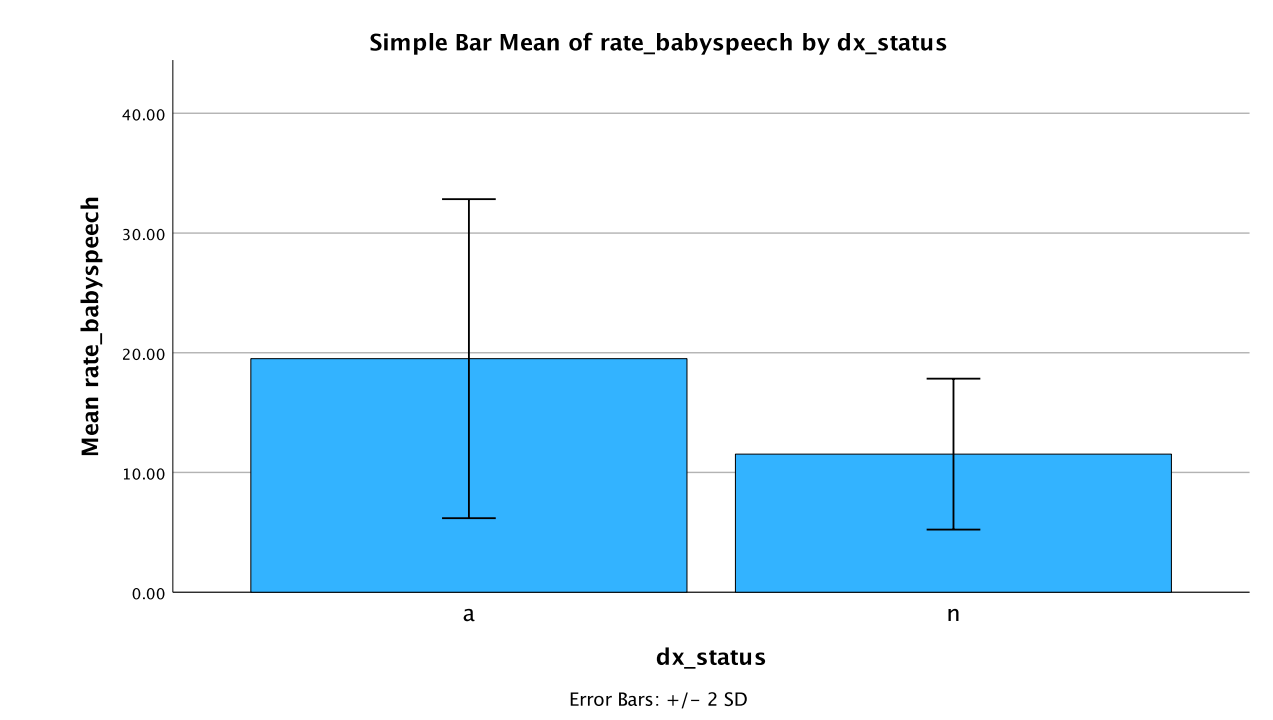
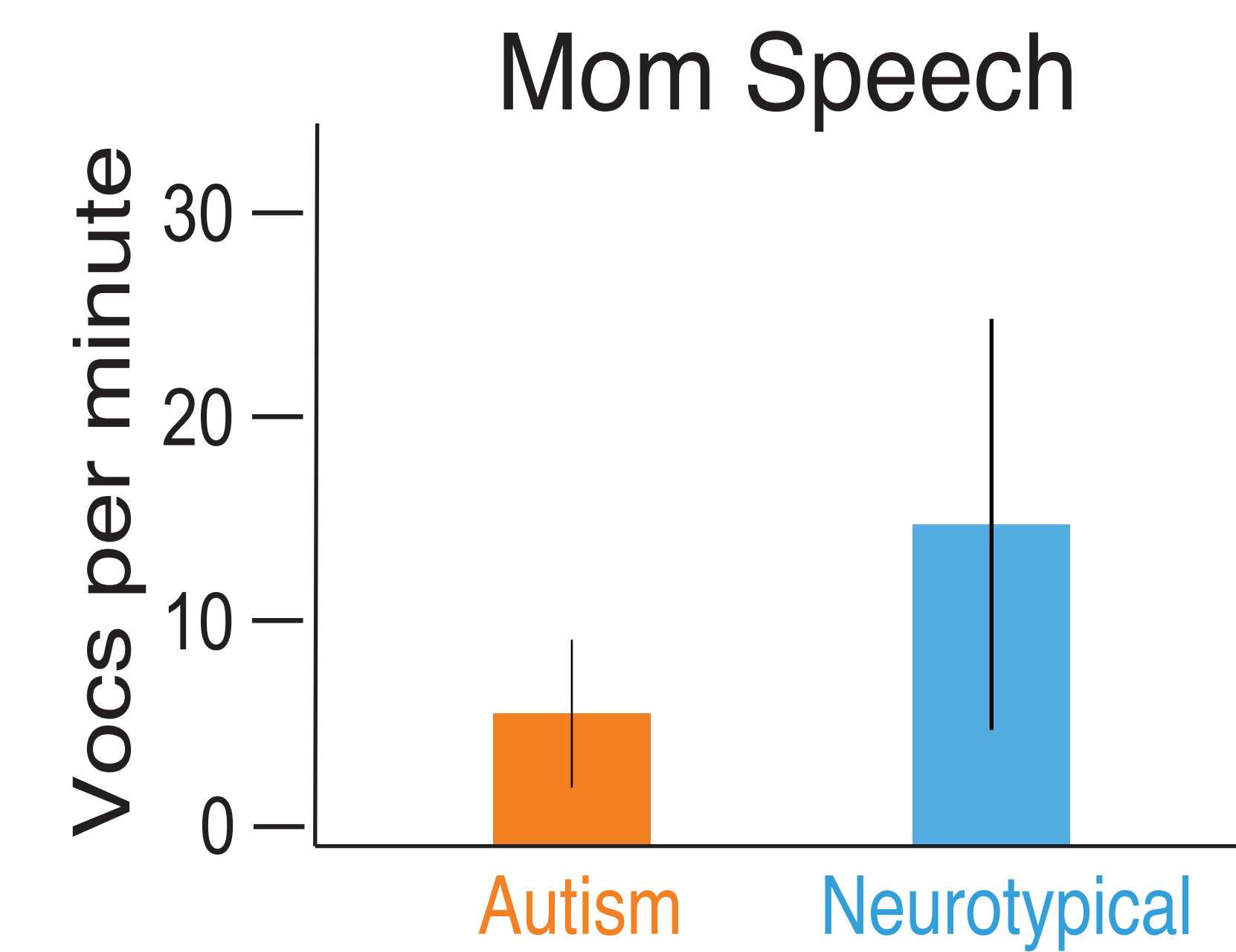
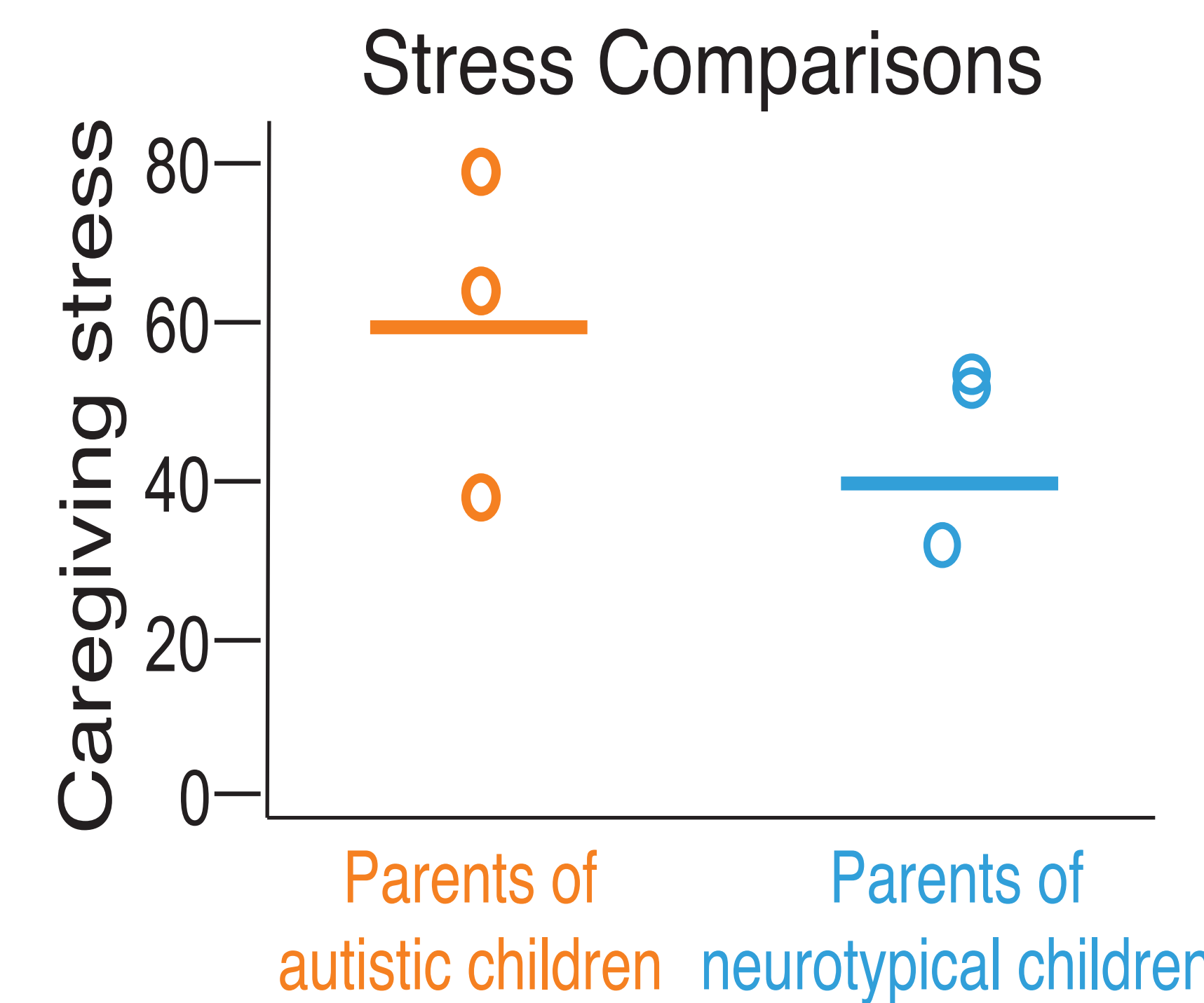
Hypotheses

Autistic toddlers engage in vocal turn-taking with caregivers differently than neurotypical toddlers and their caregivers.

Caregivers of autistic toddlers report higher levels of strain and stress than caregivers of neurotypical toddlers.

Higher caregiver strain/stress relates to reduced quality of vocal turn-taking between caregivers and toddlers.

Preliminary Data

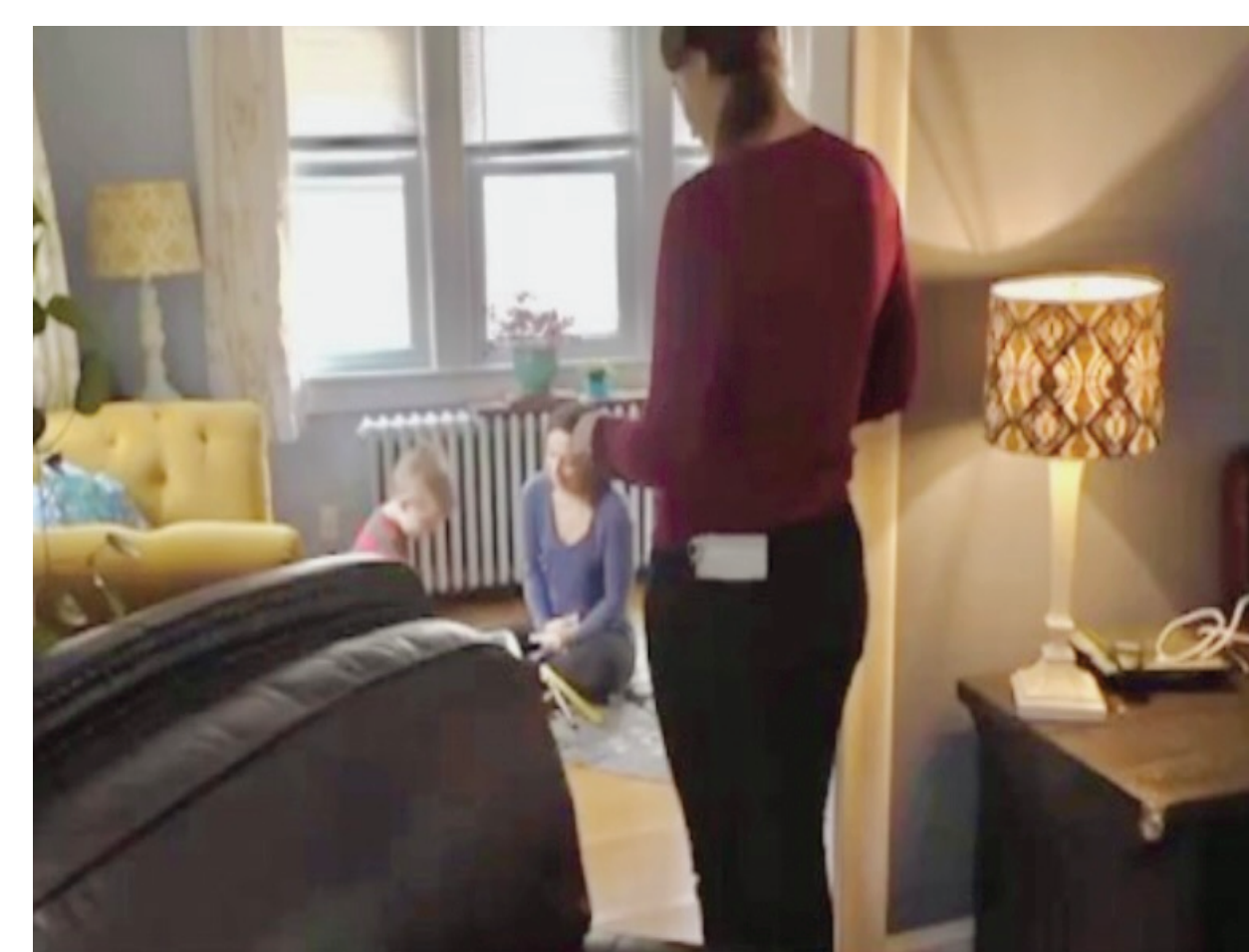


Methods

Collected 1-hour videos of $N = 6$ toddlers during natural activity at home.



Camera View



Experimenter Recording

momspeech	babyspeech
00:02:46:004 00:03:48:504 (don't wanna reach lol)	
00:03:50:633 00:03:50:633 (there you go)	
00:04:15:133 00:04:15:133 (okay)	
00:04:34:282 00:04:34:282 (finish that we'll try to get you some others)	
00:04:41:033 00:04:41:033 (b)	
00:04:41:934 00:04:41:934 (b)	
00:04:43:434 00:04:43:434 (c)	
00:04:46:133 00:04:46:133 (b)	
00:04:54:133 00:04:54:133 (b)	
00:04:56:433 00:04:56:433 (b)	
00:04:57:481 00:04:57:481 (b)	
00:04:59:783 00:04:59:783 (c)	
00:05:01:032 00:05:01:032 (b)	
00:05:02:981 00:05:02:981 (mm)	
00:05:08:384 00:05:08:384 (c)	
00:05:10:133 00:05:10:133 (b)	
00:05:49:083 00:05:49:083 (wanna try some of that too?)	
00:05:56:084 00:05:56:084 (you got it)	

momspeech	babyspeech
00:19:02:089 00:19:02:089 (was that a little scary?)	
00:19:03:640 00:19:03:640 (b)	
00:19:05:038 00:19:05:038 (b)	
00:19:05:345 00:19:05:345 (you better use your big boy)	
00:19:06:105 00:19:06:105 (c)	
00:19:07:221 00:19:07:221 ([laugh])	
00:19:07:531 00:19:07:531 (c)	
00:19:10:274 00:19:10:274 (b)	
00:19:10:863 00:19:10:863 (woah)	
00:19:13:994 00:19:13:994 (c)	
00:19:14:939 00:19:14:939 (you tell daddy if it's too rough for you okay?)	
00:19:17:017 00:19:17:017 (b)	
00:19:23:714 00:19:23:714 (b)	
00:19:26:039 00:19:26:039 (you're gonna check it?)	
00:19:27:387 00:19:27:387 (b)	
00:19:28:426 00:19:28:426 (it's good? [laugh])	
00:19:30:456 00:19:30:456 (b)	
00:19:31:340 00:19:31:340 (b)	

Conclusions & Future Directions

- Pilot data shows differences in caregiver stress and vocal turn-taking.
- In the future, I will test whether differences in caregiver stress account for trend in vocal turn-taking
- I will continue data collection to reach $N=60$ toddler-caregiver dyads
- Systems view of development is critical for understanding development in autism.