

# Kinder-Gator: The UF Kinect Database of Child and Adult Motion

Supplementary Material:

## Motion Visualizations

Aishat Aloba<sup>1</sup>, Gianne Flores<sup>1</sup>, Julia Woodward<sup>1</sup>, Alex Shaw<sup>1</sup>, Amanda  
Castonguay<sup>2†</sup>, Isabella Cuba<sup>3†</sup>, Yuzhu Dong<sup>1</sup>, Eakta Jain<sup>1</sup>, Lisa Anthony<sup>1</sup>

<sup>1</sup>Dept of CISE, University of Florida, Gainesville, FL USA

<sup>2</sup>University of Southern Maine, ME USA

<sup>3</sup>Vassar College, Poughkeepsie, NY USA

† Work conducted while these authors were summer interns at the University of Florida.

# Introduction

This document presents the visualizations of 3D joint positions rendered from the frontal view on every tenth frame and pinned at the hip for all 58 motions performed by 10 children and 10 adults.

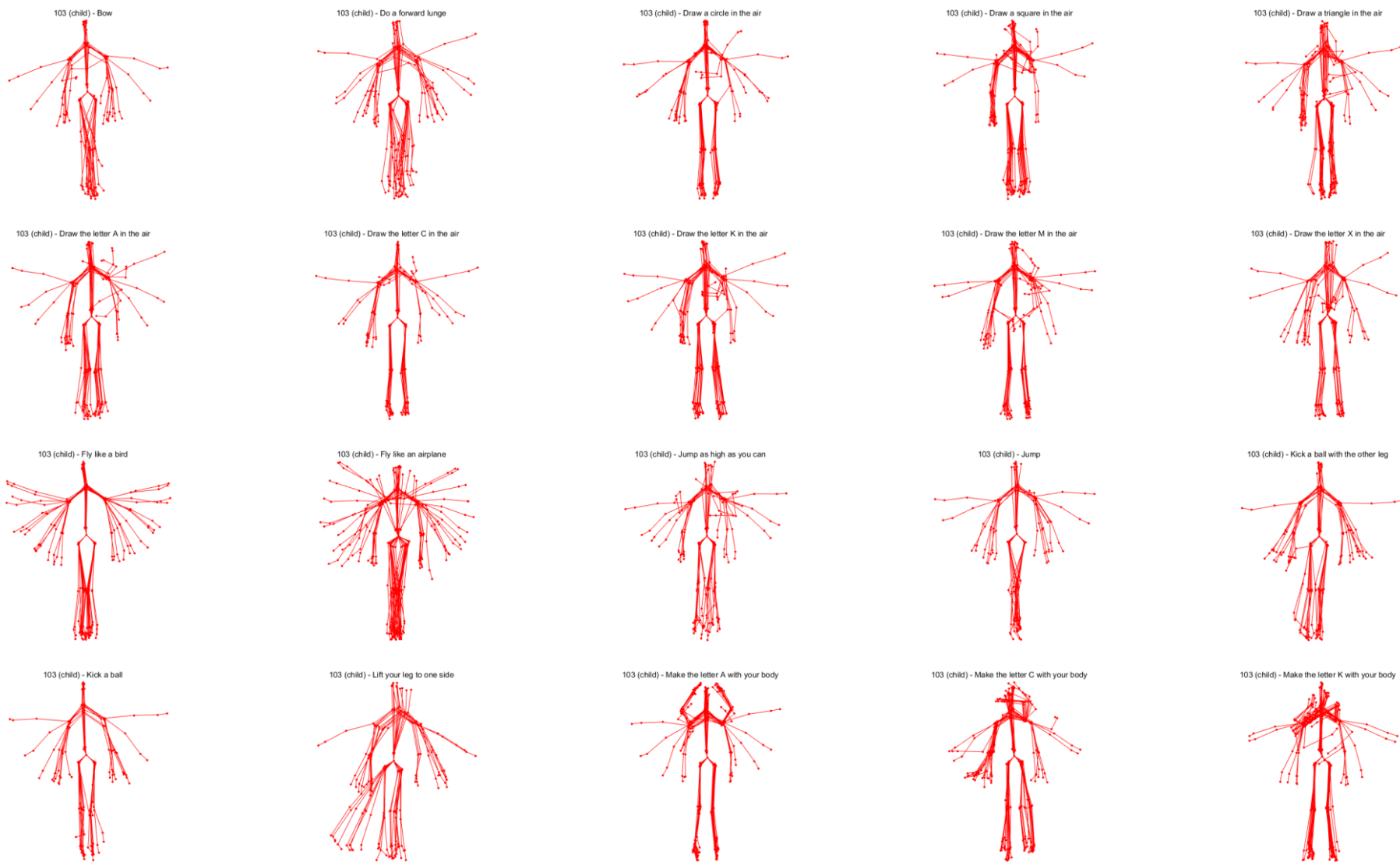
The motions have been arranged alphabetically by name.

Each participant's motions (child/adult) span across 3 pages.

**Red** Visualizations denote children

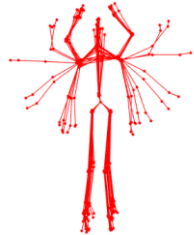
**Blue** Visualizations denote adults

# Motion Visualizations, participant 103 (child)

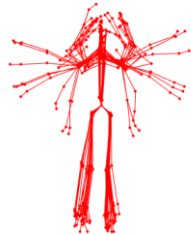


# Motion Visualizations, participant 103 (child)

103 (child) - Make the letter M with your body



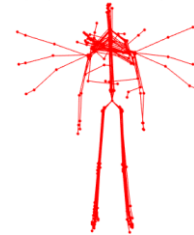
103 (child) - Make the letter P with your body



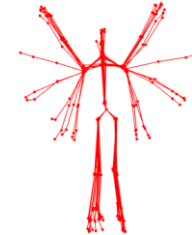
103 (child) - Make the letter T with your body



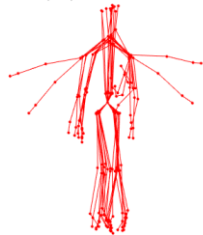
103 (child) - Make the letter X with your body



103 (child) - Make the letter Y with your body



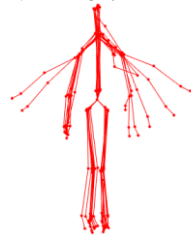
103 (child) - Point at the camera



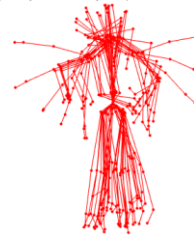
103 (child) - Punch



103 (child) - Push an imaginary button in front of you



103 (child) - Put your hands on your hips and lean to the other side



103 (child) - Put your hands on your hips and lean to the side



103 (child) - Put your hands on your hips and twist back and forth



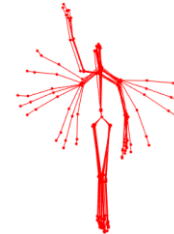
103 (child) - Raise your arm to one side



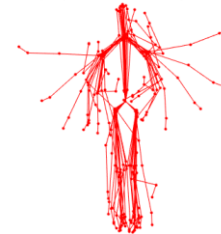
103 (child) - Raise your hand



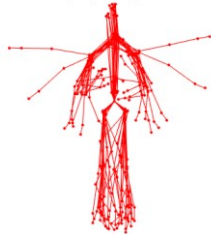
103 (child) - Raise your other hand



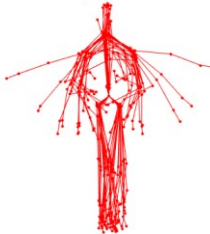
103 (child) - Run in place as fast as you can



103 (child) - Run in place



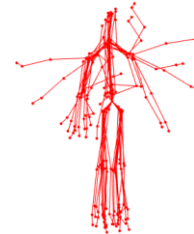
103 (child) - Swim



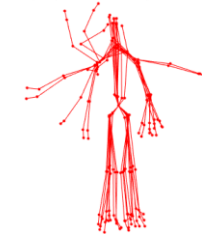
103 (child) - Throw a ball as far as you can with the other arm



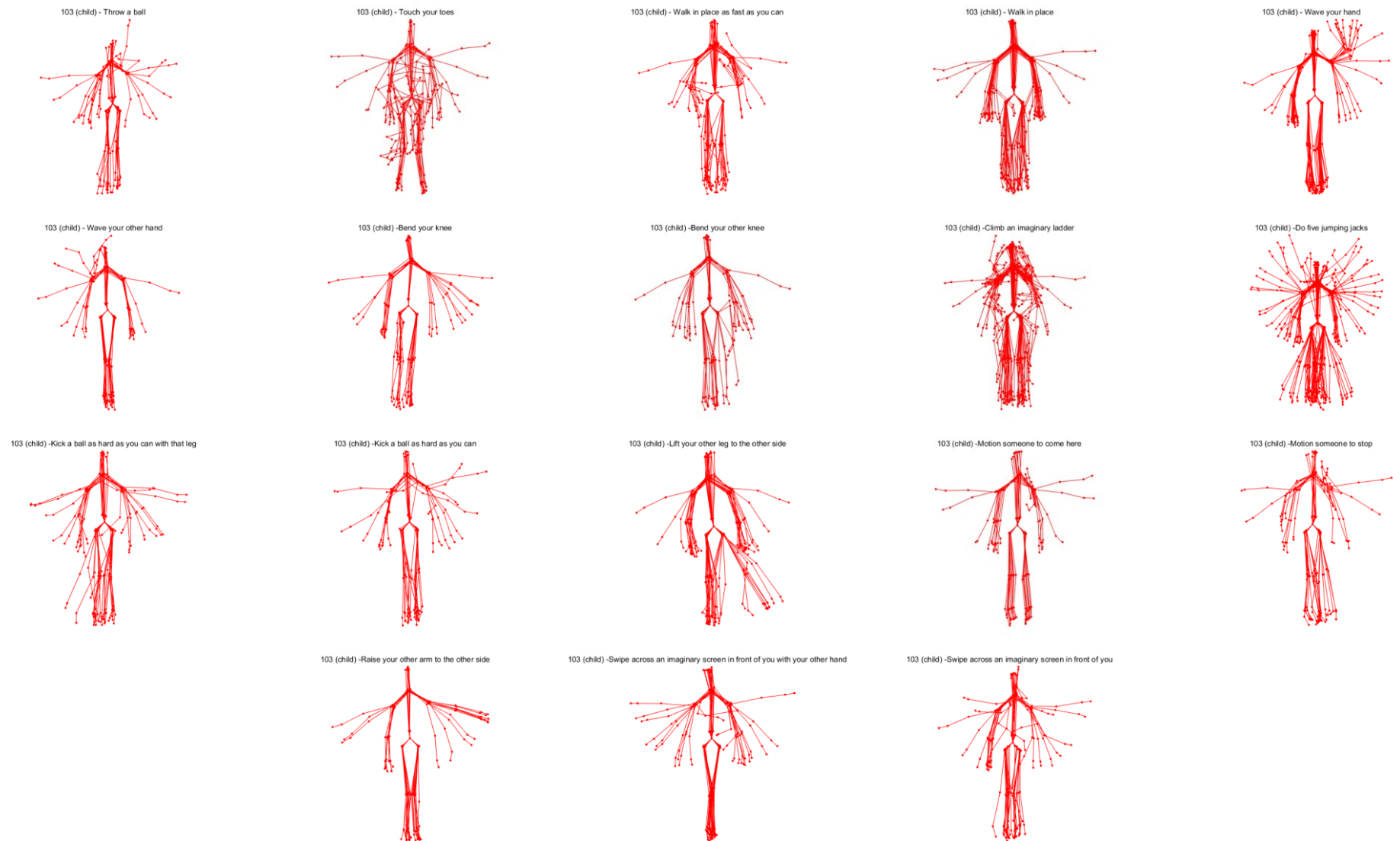
103 (child) - Throw a ball as far as you can



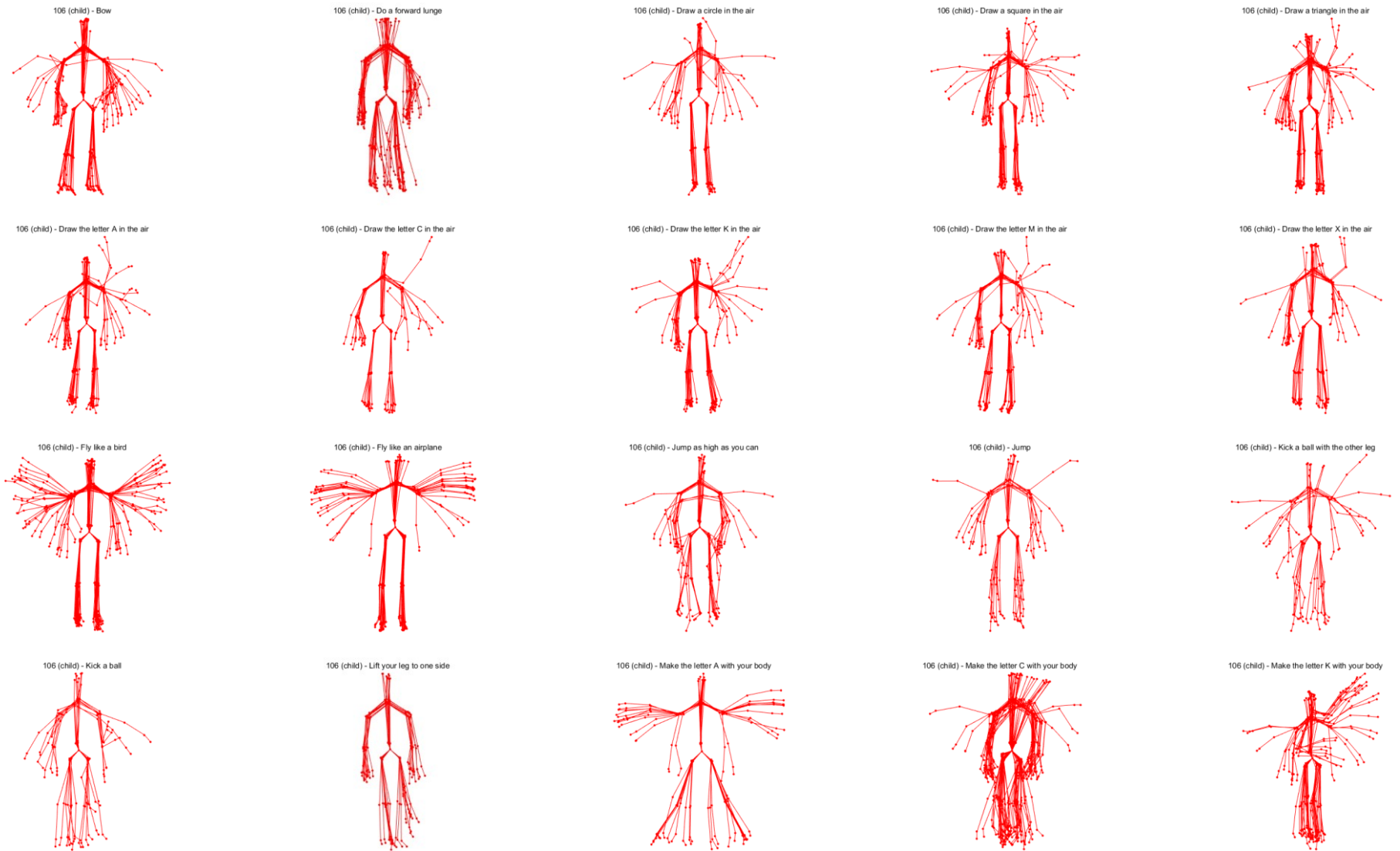
103 (child) - Throw a ball with your other arm



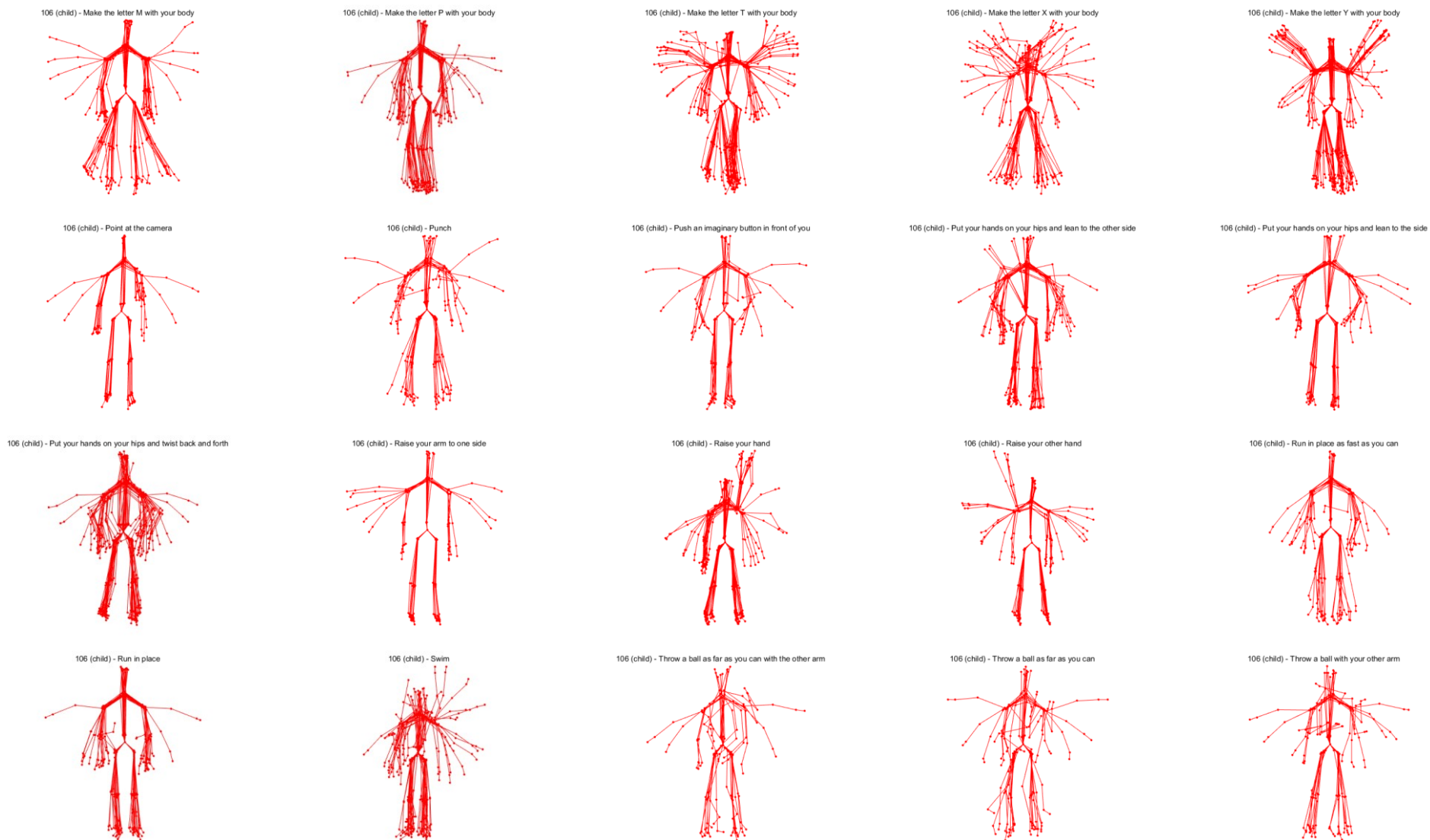
## Motion Visualizations, participant 103 (child)



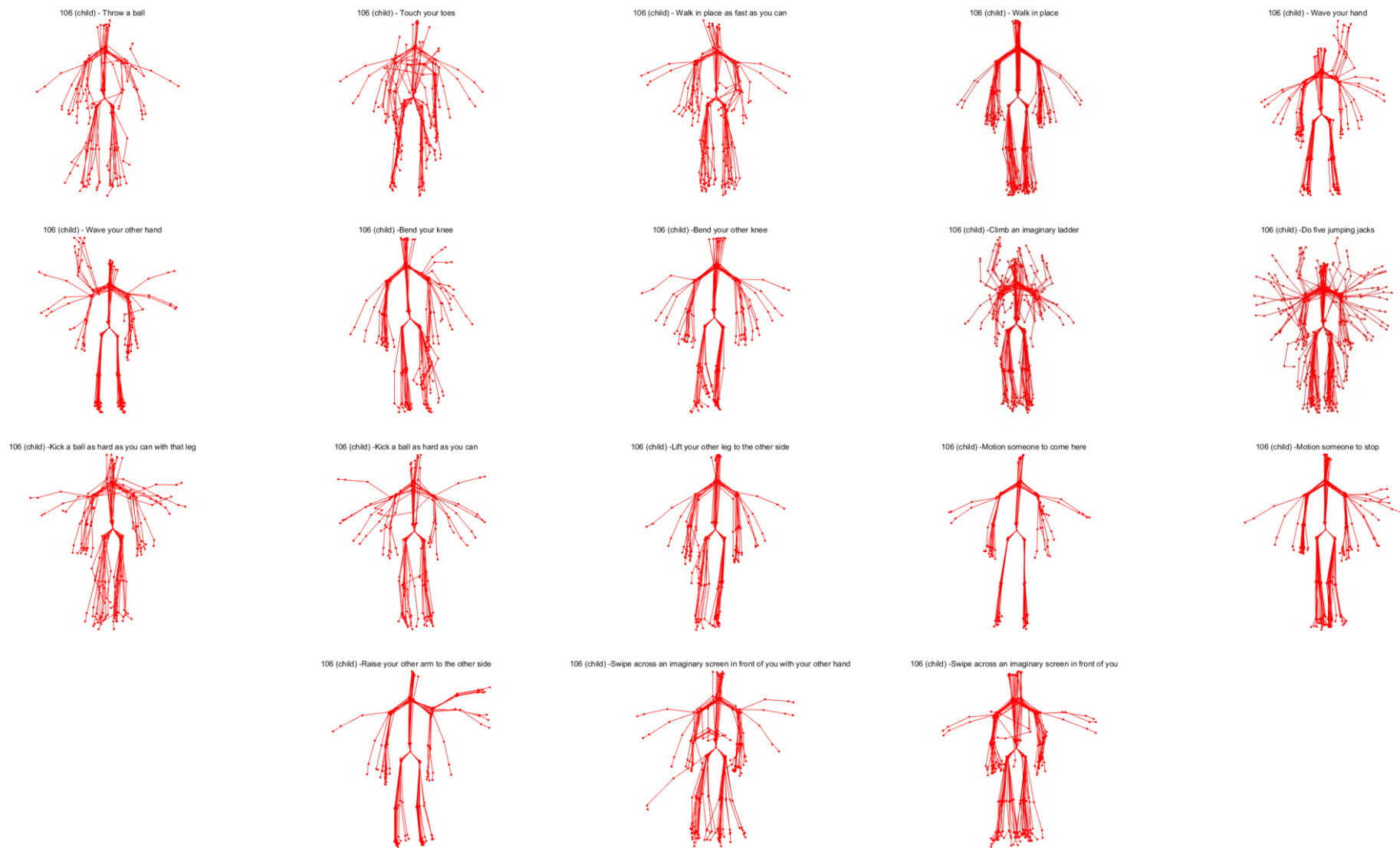
## Motion Visualizations, participant 106 (child)



## Motion Visualizations, participant 106 (child)

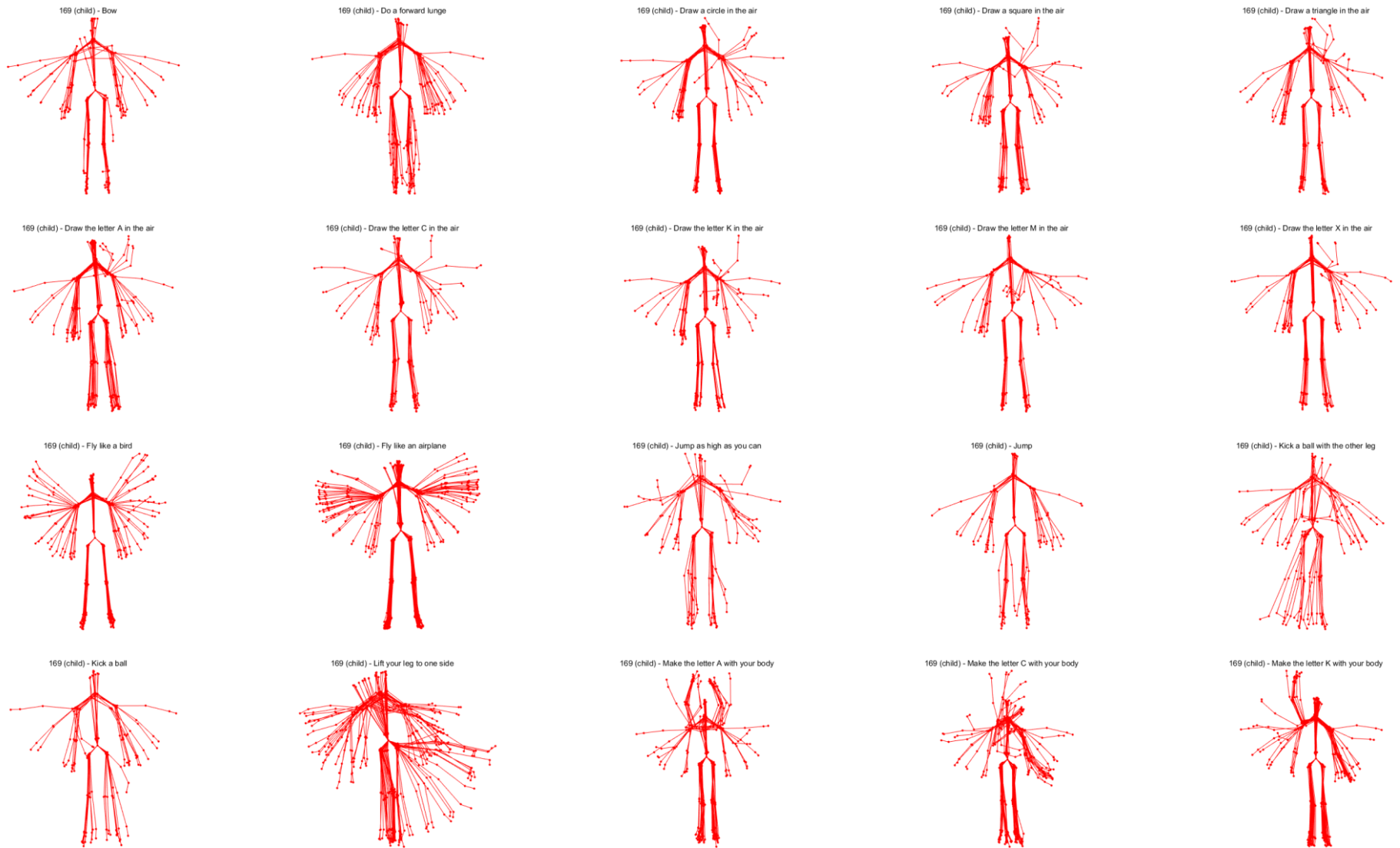


# Motion Visualizations, participant 106 (child)





## Motion Visualizations, participant 169 (child)



# Motion Visualizations, participant 169 (child)

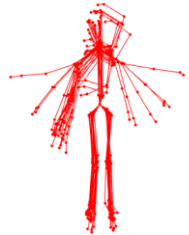
169 (child) - Make the letter M with your body



169 (child) - Make the letter P with your body



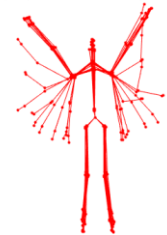
169 (child) - Make the letter T with your body



169 (child) - Make the letter X with your body



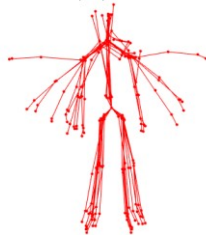
169 (child) - Make the letter Y with your body



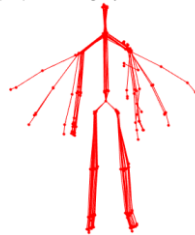
169 (child) - Point at the camera



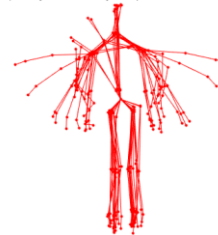
169 (child) - Punch



169 (child) - Push an imaginary button in front of you



169 (child) - Put your hands on your hips and lean to the other side



169 (child) - Put your hands on your hips and lean to the side



169 (child) - Put your hands on your hips and twist back and forth



169 (child) - Raise your arm to one side



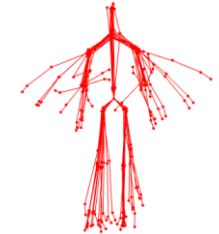
169 (child) - Raise your hand



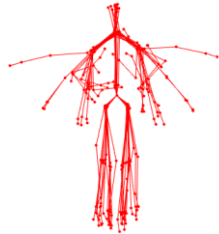
169 (child) - Raise your other hand



169 (child) - Run in place as fast as you can



169 (child) - Run in place



169 (child) - Swim



169 (child) - Throw a ball as far as you can with the other arm



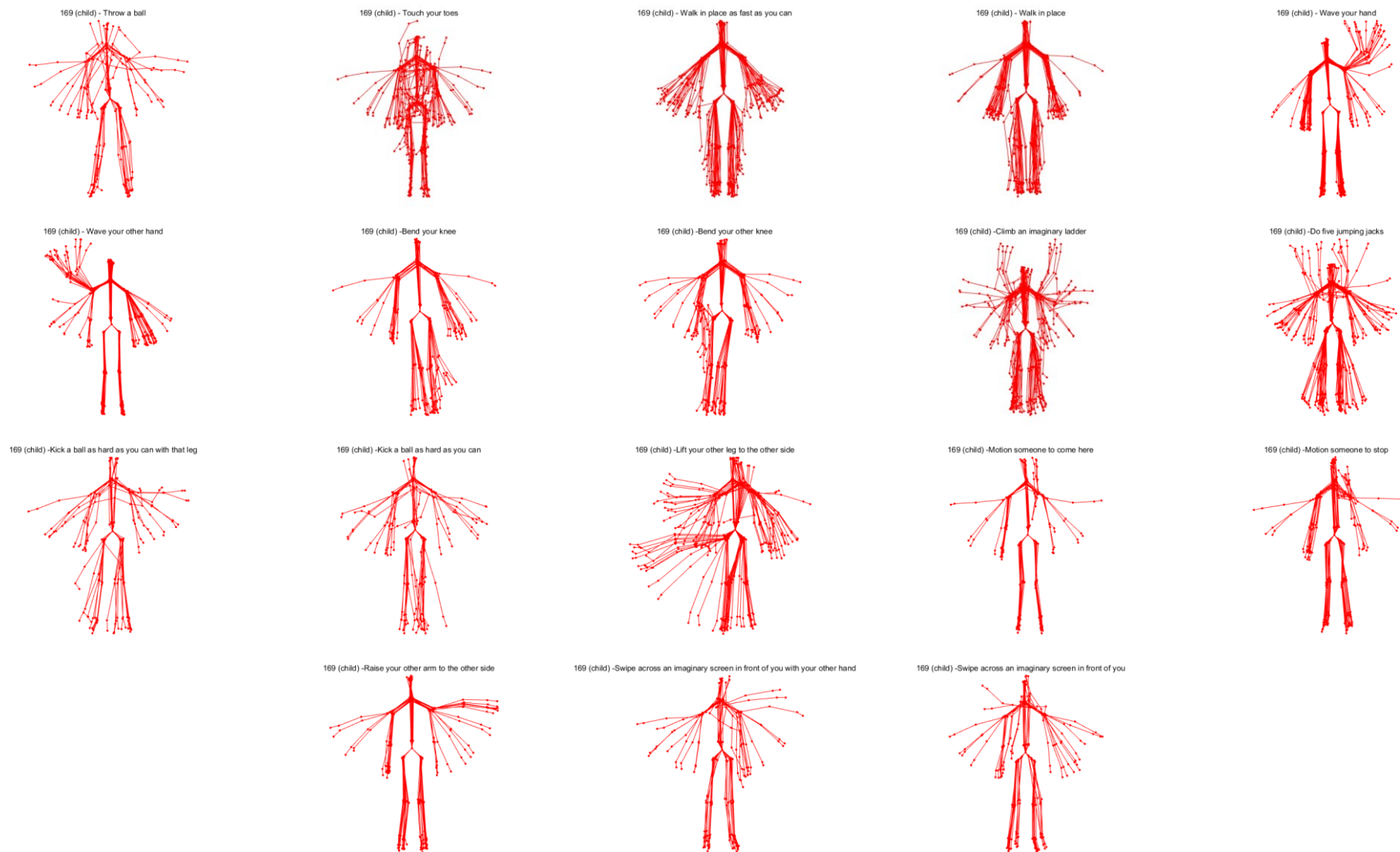
169 (child) - Throw a ball as far as you can



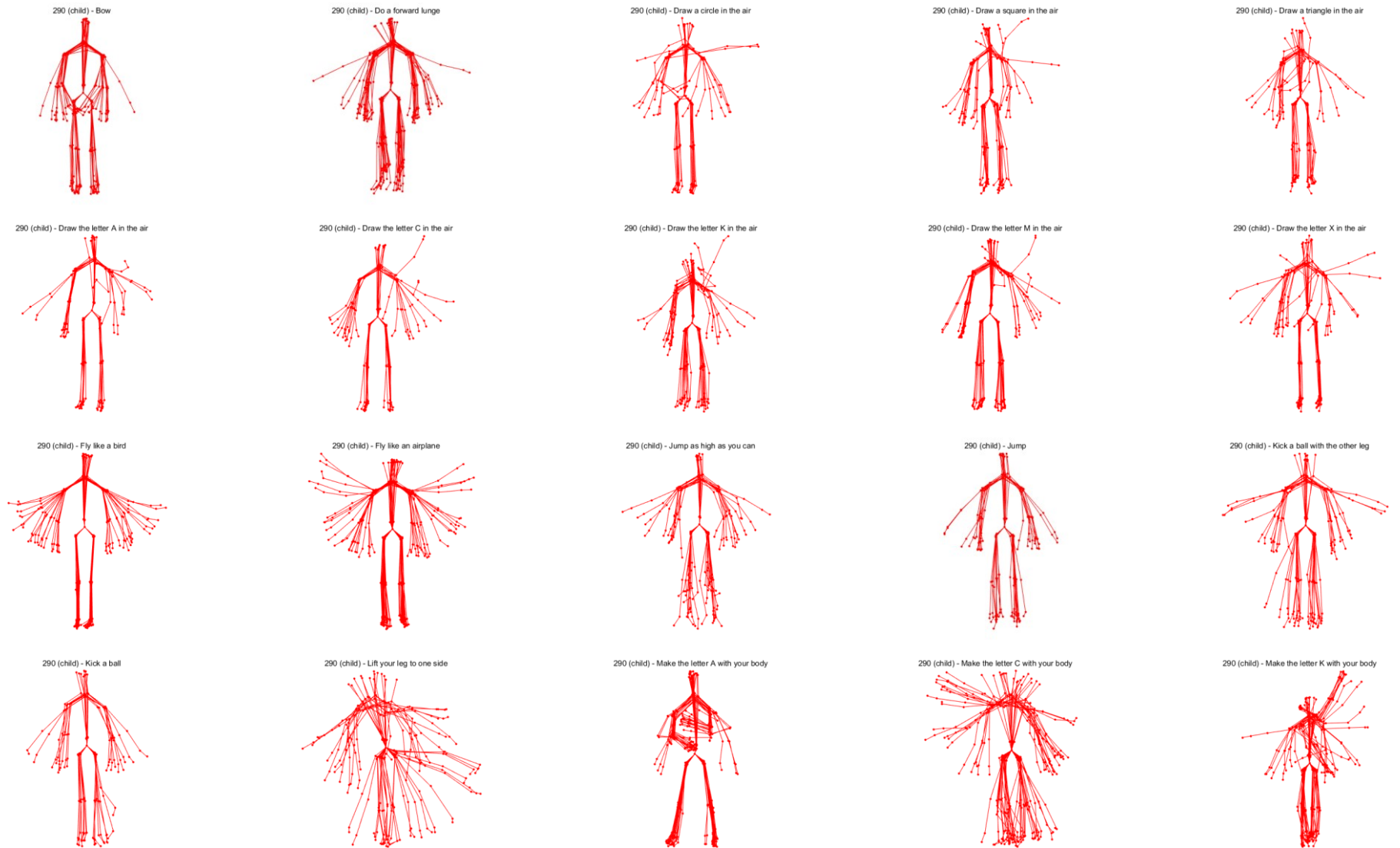
169 (child) - Throw a ball with your other arm



# Motion Visualizations, participant 169 (child)



## Motion Visualizations, participant 290 (child)



# Motion Visualizations, participant 290 (child)

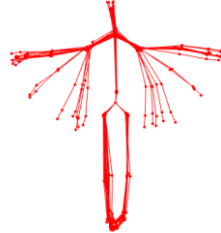
290 (child) - Make the letter M with your body



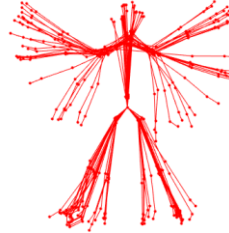
290 (child) - Make the letter P with your body



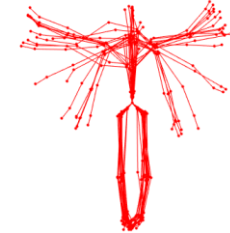
290 (child) - Make the letter T with your body



290 (child) - Make the letter X with your body



290 (child) - Make the letter Y with your body



290 (child) - Point at the camera



290 (child) - Punch



290 (child) - Push an imaginary button in front of you



290 (child) - Put your hands on your hips and lean to the other side



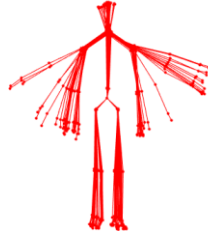
290 (child) - Put your hands on your hips and lean to the side



290 (child) - Put your hands on your hips and twist back and forth



290 (child) - Raise your arm to one side



290 (child) - Raise your hand



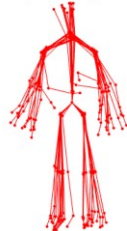
290 (child) - Raise your other hand



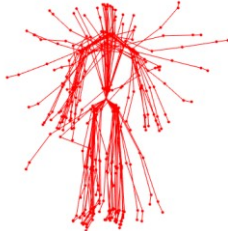
290 (child) - Run in place as fast as you can



290 (child) - Run in place



290 (child) - Swim



290 (child) - Throw a ball as far as you can with the other arm



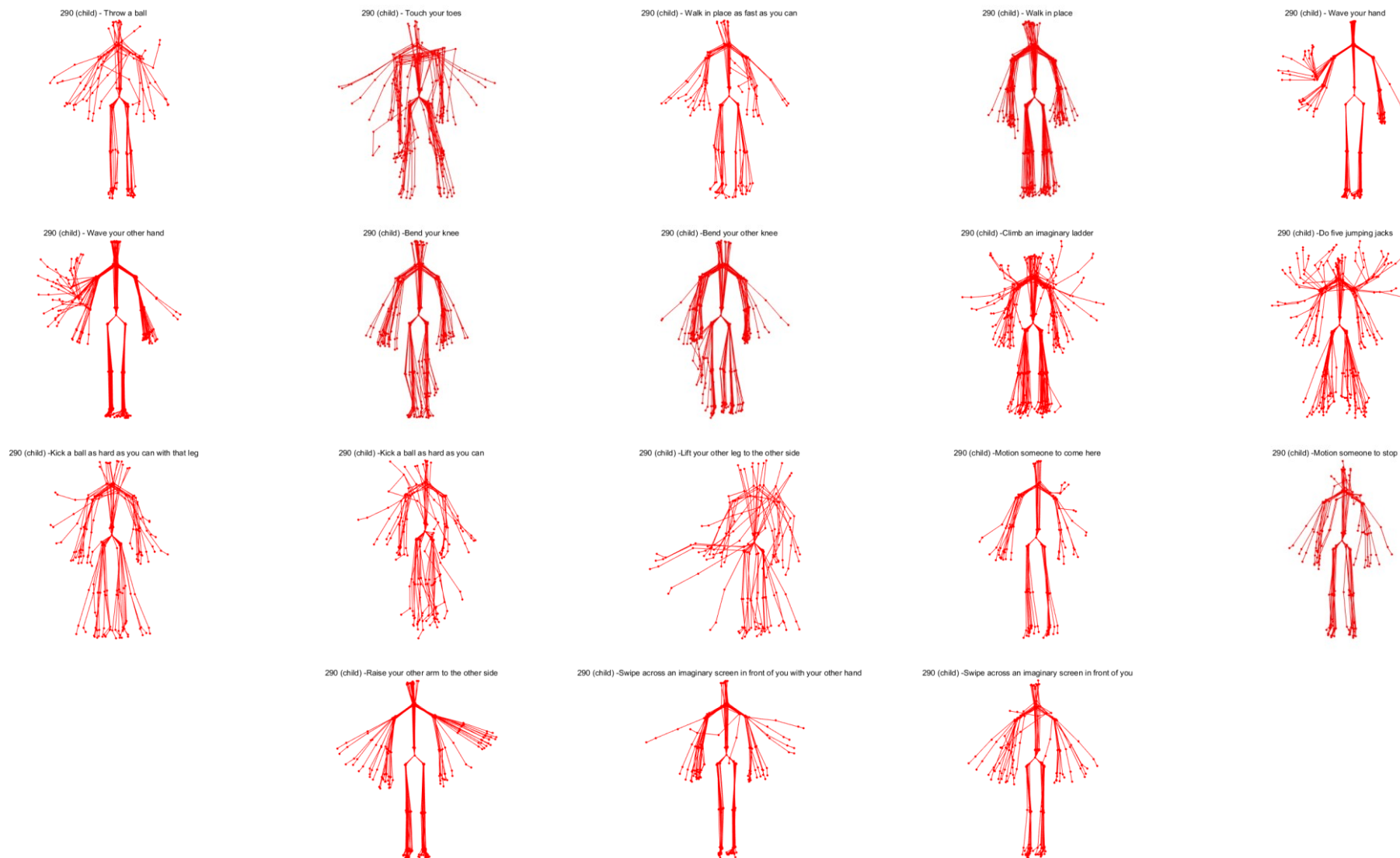
290 (child) - Throw a ball as far as you can



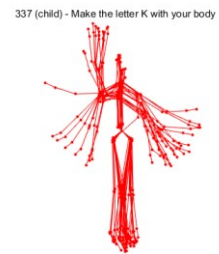
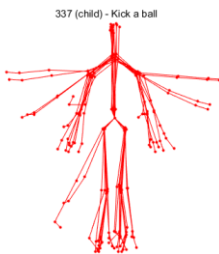
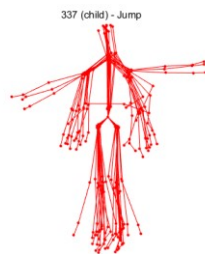
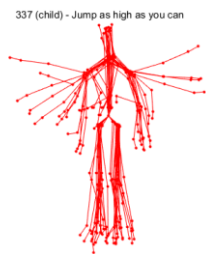
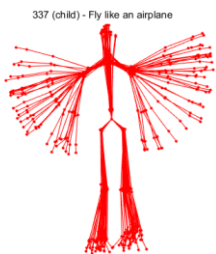
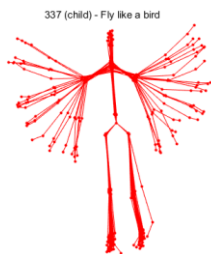
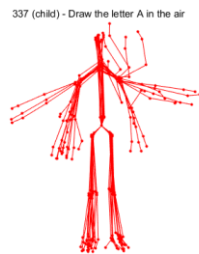
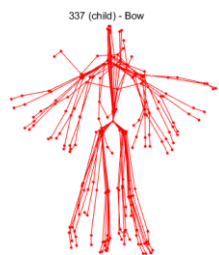
290 (child) - Throw a ball with your other arm



# Motion Visualizations, participant 290 (child)

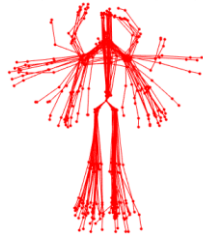


# Motion Visualizations, participant 337 (child)



## Motion Visualizations, participant 337 (child)

337 (child) - Make the letter M with your body



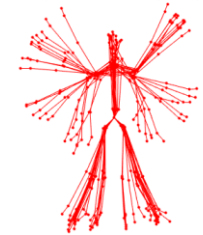
337 (child) - Make the letter P with your body



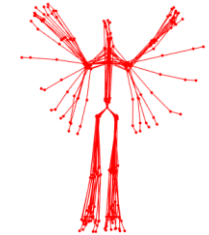
337 (child) - Make the letter T with your body



337 (child) - Make the letter X with your body



337 (child) - Make the letter Y with your body



337 (child) - Point at the camera



337 (child) - Punch



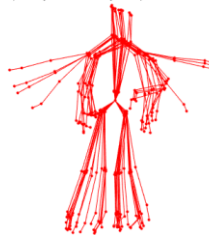
337 (child) - Push an imaginary button in front of you



337 (child) - Put your hands on your hips and lean to the other side



337 (child) - Put your hands on your hips and lean to the side



337 (child) - Put your hands on your hips and twist back and forth



337 (child) - Raise your arm to one side



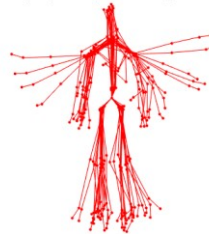
337 (child) - Raise your hand



337 (child) - Raise your other hand



337 (child) - Run in place as fast as you can



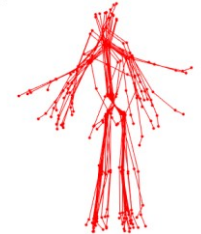
337 (child) - Run in place



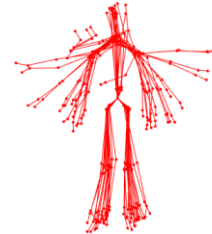
337 (child) - Swim



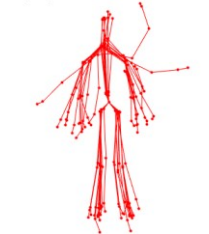
337 (child) - Throw a ball as far as you can with the other arm



337 (child) - Throw a ball as far as you can



337 (child) - Throw a ball with your other arm





## Motion Visualizations, participant 337 (child)



## Motion Visualizations, participant 342 (child)

342 (child) - Bow



342 (child) - Do a forward lunge



342 (child) - Draw a circle in the air



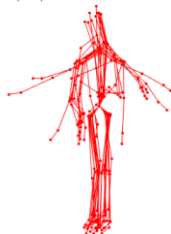
342 (child) - Draw a square in the air



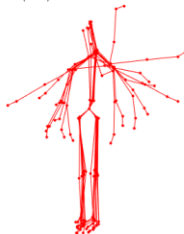
342 (child) - Draw a triangle in the air



342 (child) - Draw the letter A in the air



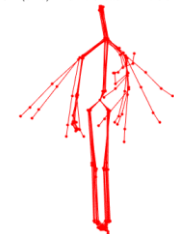
342 (child) - Draw the letter C in the air



342 (child) - Draw the letter K in the air



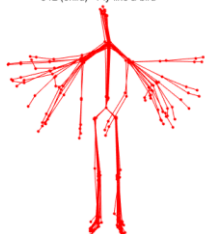
342 (child) - Draw the letter M in the air



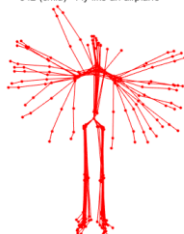
342 (child) - Draw the letter X in the air



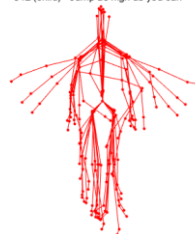
342 (child) - Fly like a bird



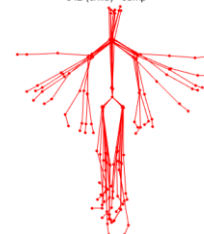
342 (child) - Fly like an airplane



342 (child) - Jump as high as you can



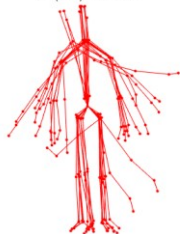
342 (child) - Jump



342 (child) - Kick a ball with the other leg



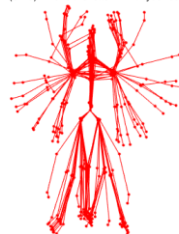
342 (child) - Kick a ball



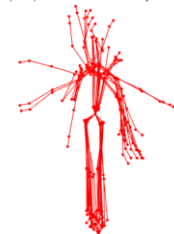
342 (child) - Lift your leg to one side



342 (child) - Make the letter A with your body



342 (child) - Make the letter C with your body



342 (child) - Make the letter K with your body



# Motion Visualizations, participant 342 (child)

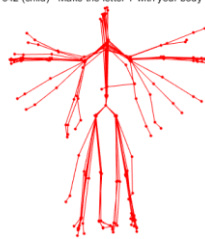
342 (child) - Make the letter M with your body



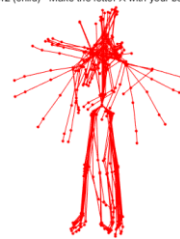
342 (child) - Make the letter P with your body



342 (child) - Make the letter T with your body



342 (child) - Make the letter X with your body



342 (child) - Make the letter Y with your body



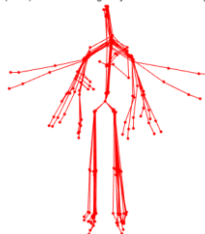
342 (child) - Point at the camera



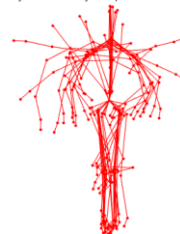
342 (child) - Punch



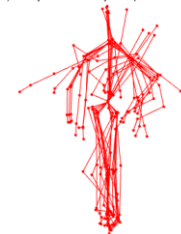
342 (child) - Push an imaginary button in front of you



342 (child) - Put your hands on your hips and lean to the other side



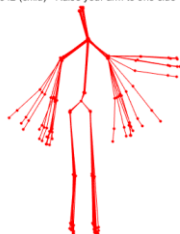
342 (child) - Put your hands on your hips and lean to the side



342 (child) - Put your hands on your hips and twist back and forth



342 (child) - Raise your arm to one side



342 (child) - Raise your hand



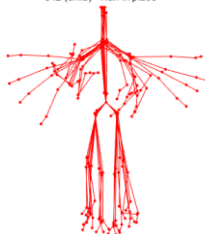
342 (child) - Raise your other hand



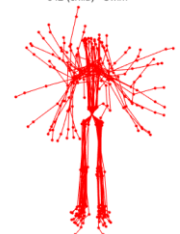
342 (child) - Run in place as fast as you can



342 (child) - Run in place



342 (child) - Swim



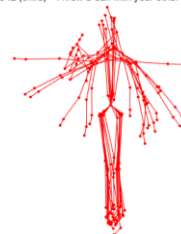
342 (child) - Throw a ball as far as you can with the other arm



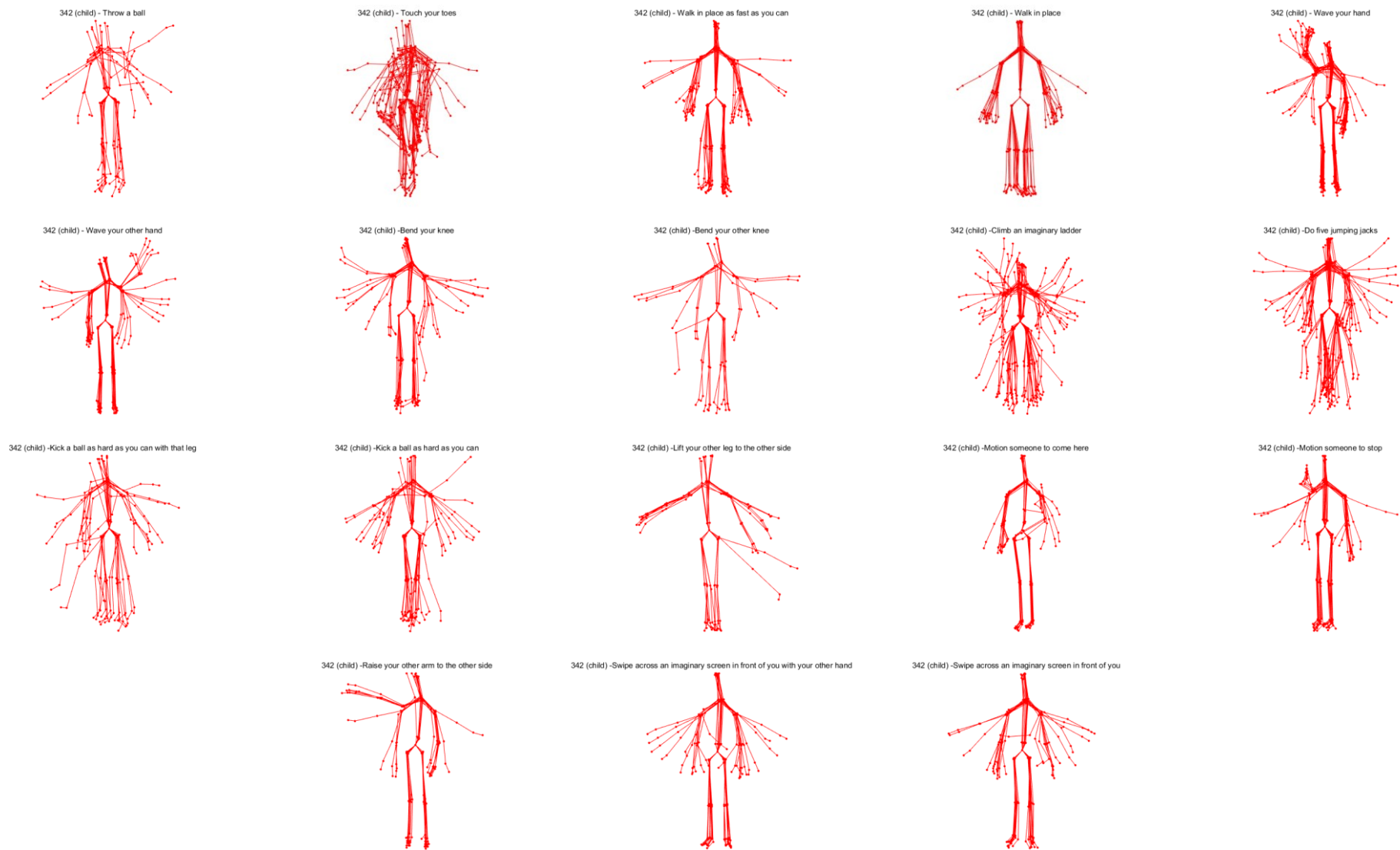
342 (child) - Throw a ball as far as you can



342 (child) - Throw a ball with your other arm



# Motion Visualizations, participant 342 (child)



## Motion Visualizations, participant 474 (child)

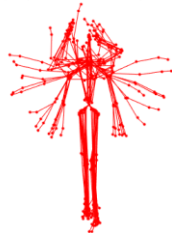


## Motion Visualizations, participant 474 (child)

474 (child) - Make the letter M with your body



474 (child) - Make the letter P with your body



474 (child) - Make the letter T with your body



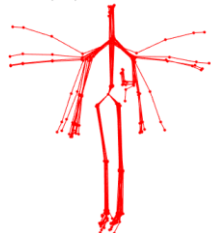
474 (child) - Make the letter X with your body



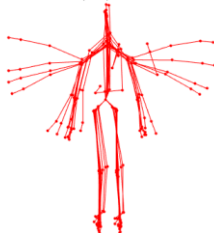
474 (child) - Make the letter Y with your body



474 (child) - Point at the camera



474 (child) - Punch



474 (child) - Push an imaginary button in front of you



474 (child) - Put your hands on your hips and lean to the other side



474 (child) - Put your hands on your hips and lean to the side



474 (child) - Put your hands on your hips and twist back and forth



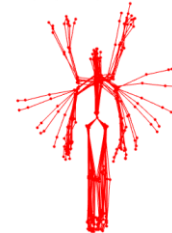
474 (child) - Raise your arm to one side



474 (child) - Raise your hand



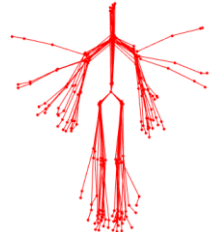
474 (child) - Raise your other hand



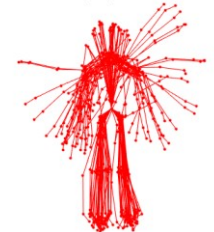
474 (child) - Run in place as fast as you can



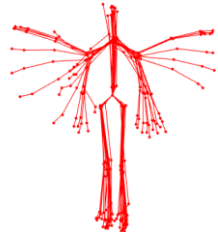
474 (child) - Run in place



474 (child) - Swim



474 (child) - Throw a ball as far as you can with the other arm



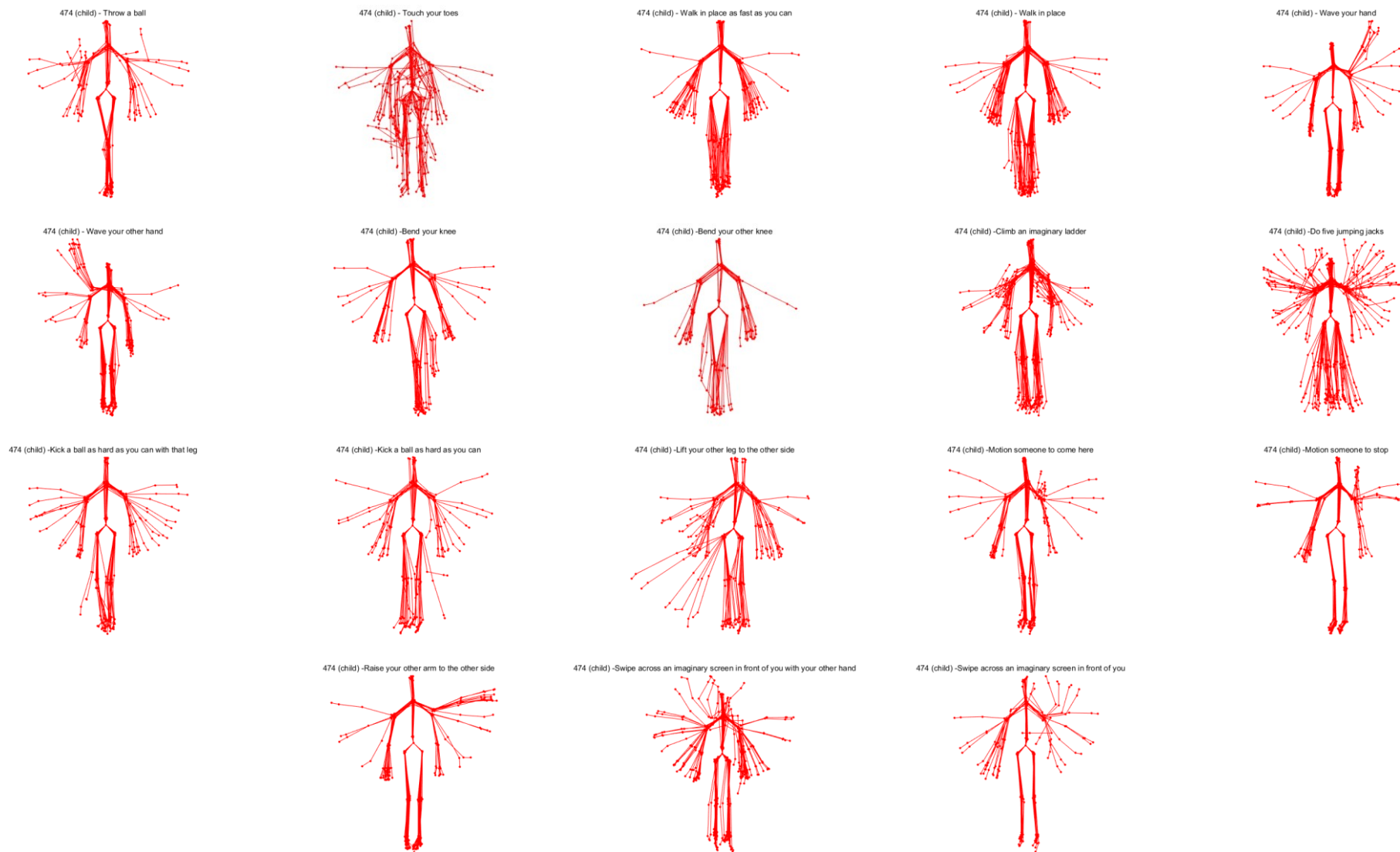
474 (child) - Throw a ball as far as you can



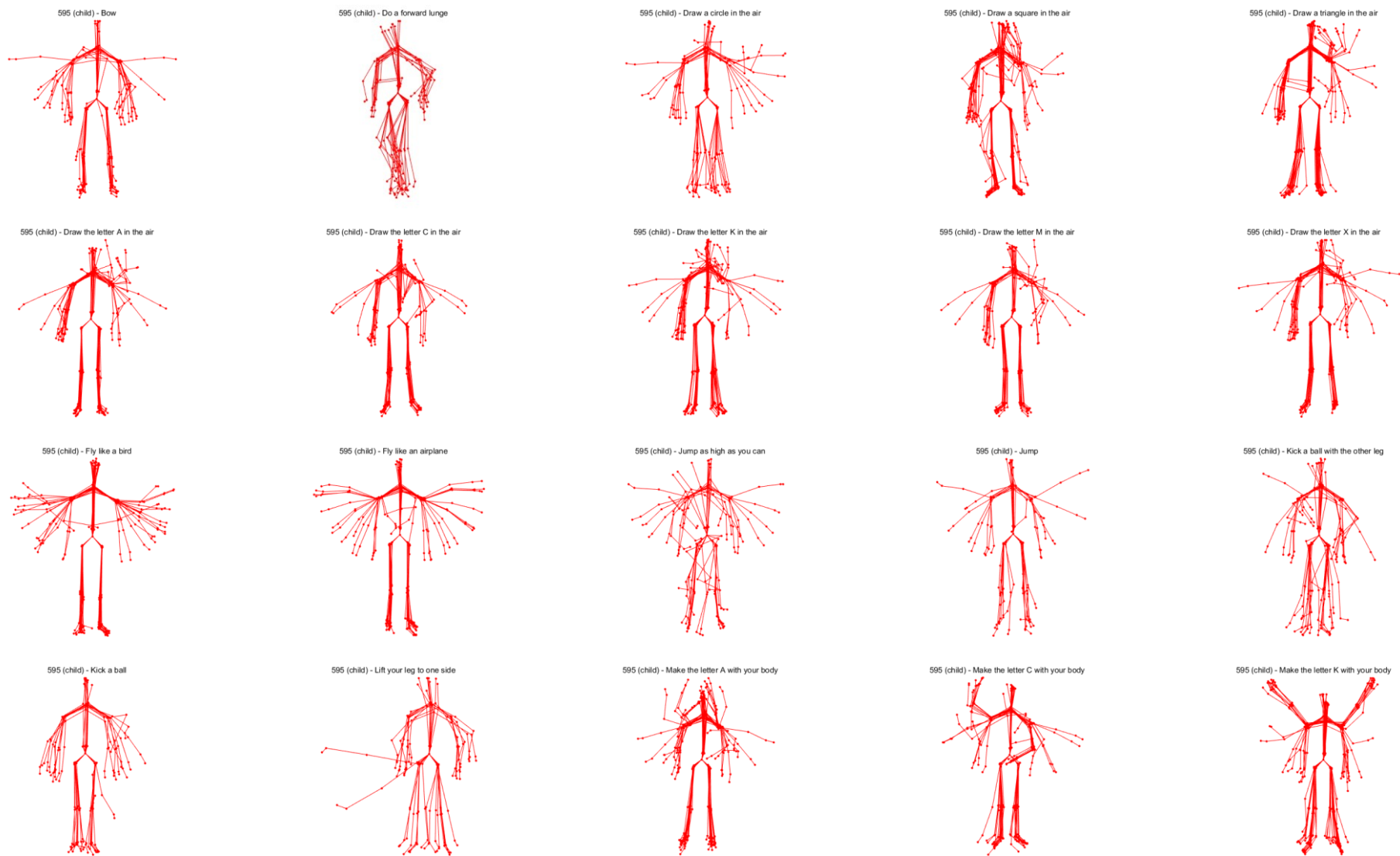
474 (child) - Throw a ball with your other arm



# Motion Visualizations, participant 474 (child)



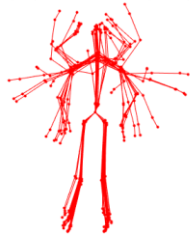
# Motion Visualizations, participant 595 (child)





## Motion Visualizations, participant 595 (child)

595 (child) - Make the letter M with your body



595 (child) - Make the letter P with your body



595 (child) - Make the letter T with your body



595 (child) - Make the letter X with your body



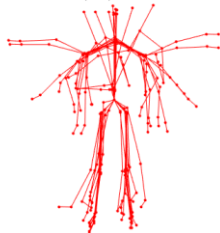
595 (child) - Make the letter Y with your body



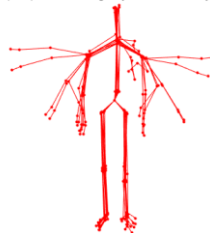
595 (child) - Point at the camera



595 (child) - Punch



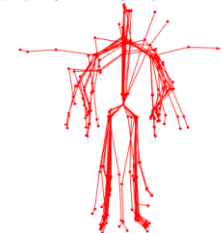
595 (child) - Push an imaginary button in front of you



595 (child) - Put your hands on your hips and lean to the other side



595 (child) - Put your hands on your hips and lean to the side



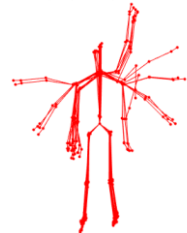
595 (child) - Put your hands on your hips and twist back and forth



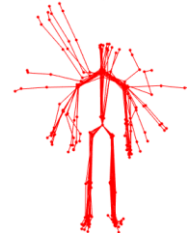
595 (child) - Raise your arm to one side



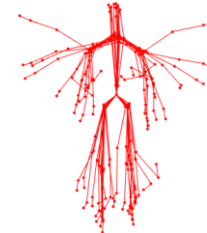
595 (child) - Raise your hand



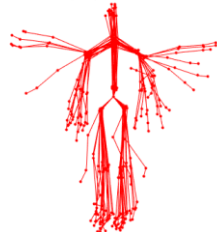
595 (child) - Raise your other hand



595 (child) - Run in place as fast as you can



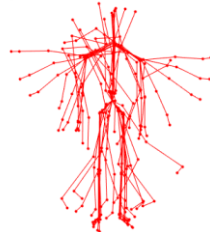
595 (child) - Run in place



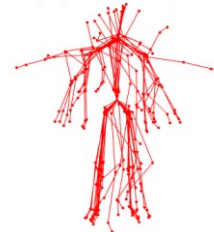
595 (child) - Swim



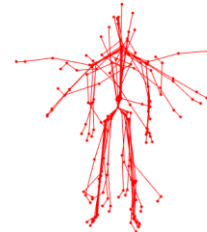
595 (child) - Throw a ball as far as you can with the other arm



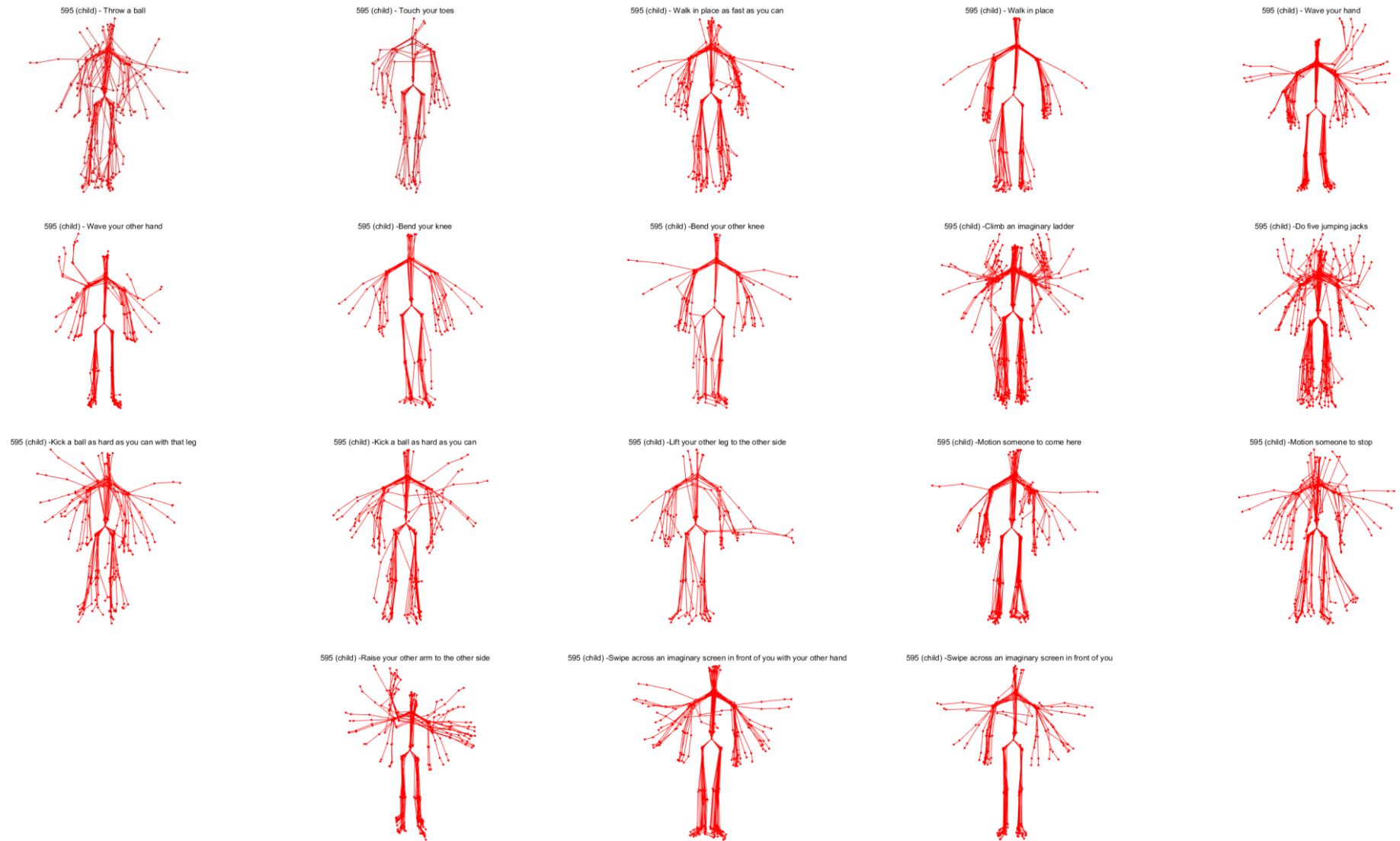
595 (child) - Throw a ball as far as you can



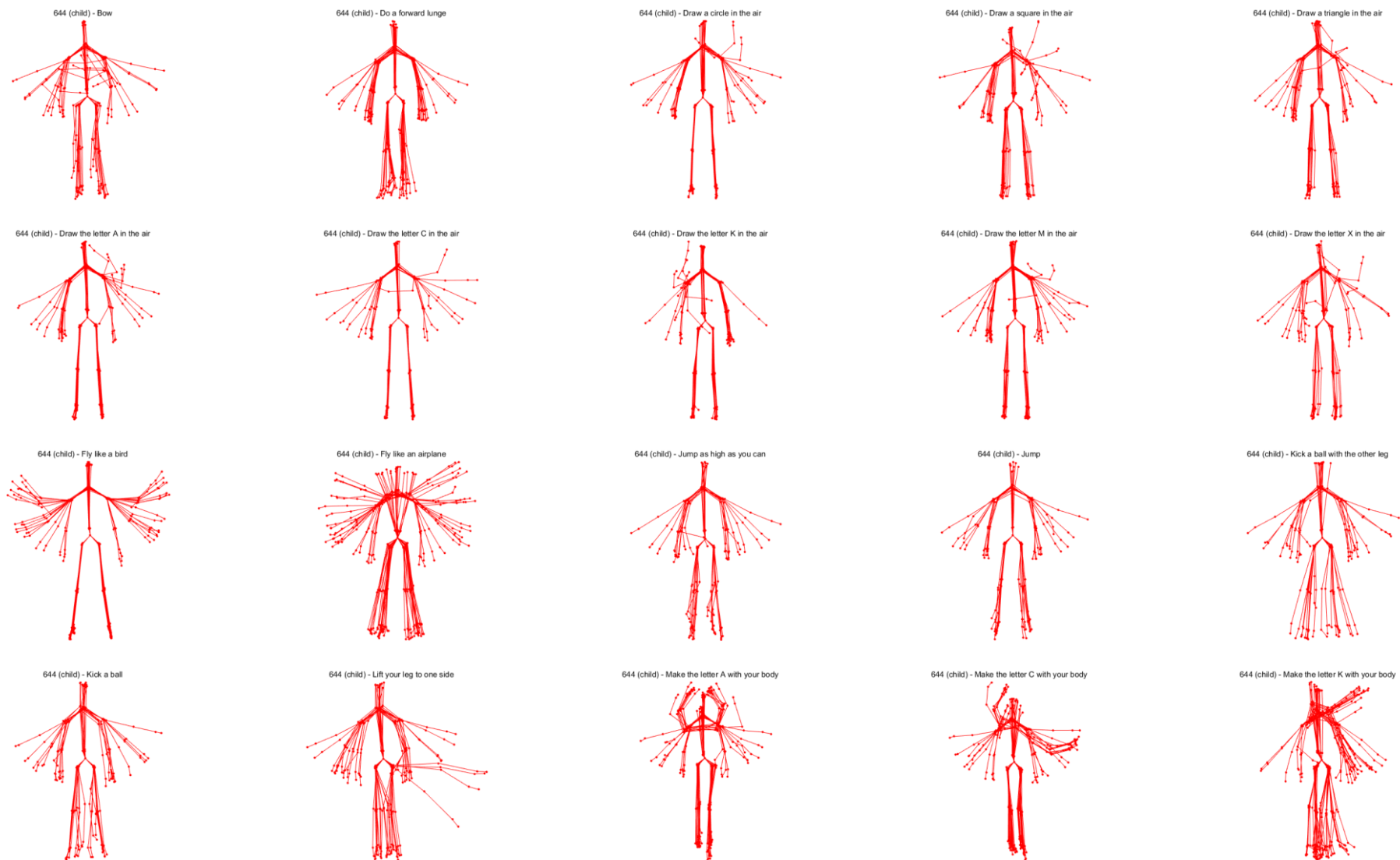
595 (child) - Throw a ball with your other arm



## Motion Visualizations, participant 595 (child)

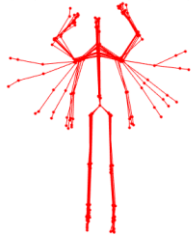


# Motion Visualizations, participant 644 (child)



# Motion Visualizations, participant 644 (child)

644 (child) - Make the letter M with your body



644 (child) - Make the letter P with your body



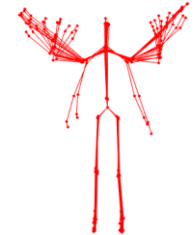
644 (child) - Make the letter T with your body



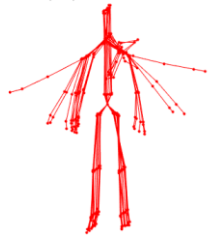
644 (child) - Make the letter X with your body



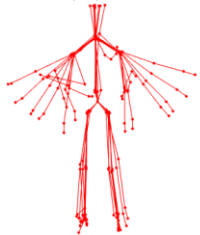
644 (child) - Make the letter Y with your body



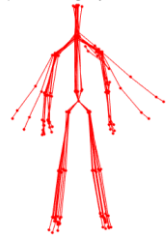
644 (child) - Point at the camera



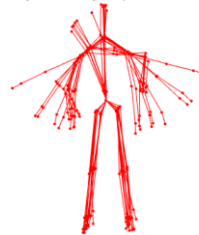
644 (child) - Punch



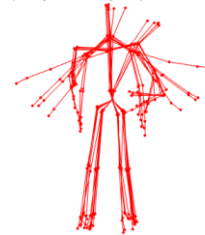
644 (child) - Push an imaginary button in front of you



644 (child) - Put your hands on your hips and lean to the other side



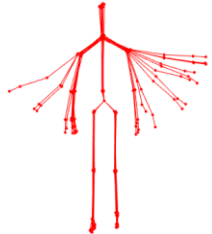
644 (child) - Put your hands on your hips and lean to the side



644 (child) - Put your hands on your hips and twist back and forth



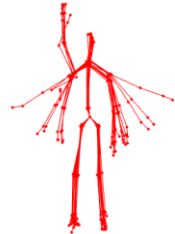
644 (child) - Raise your arm to one side



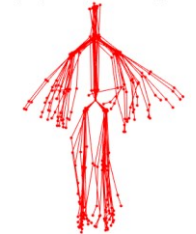
644 (child) - Raise your hand



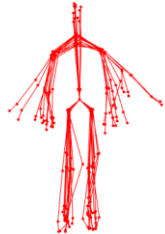
644 (child) - Raise your other hand



644 (child) - Run in place as fast as you can



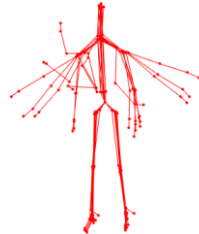
644 (child) - Run in place



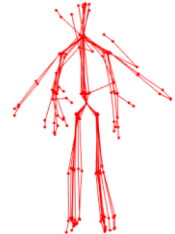
644 (child) - Swim



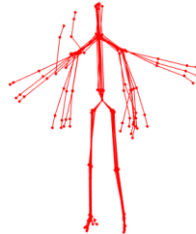
644 (child) - Throw a ball as far as you can with the other arm



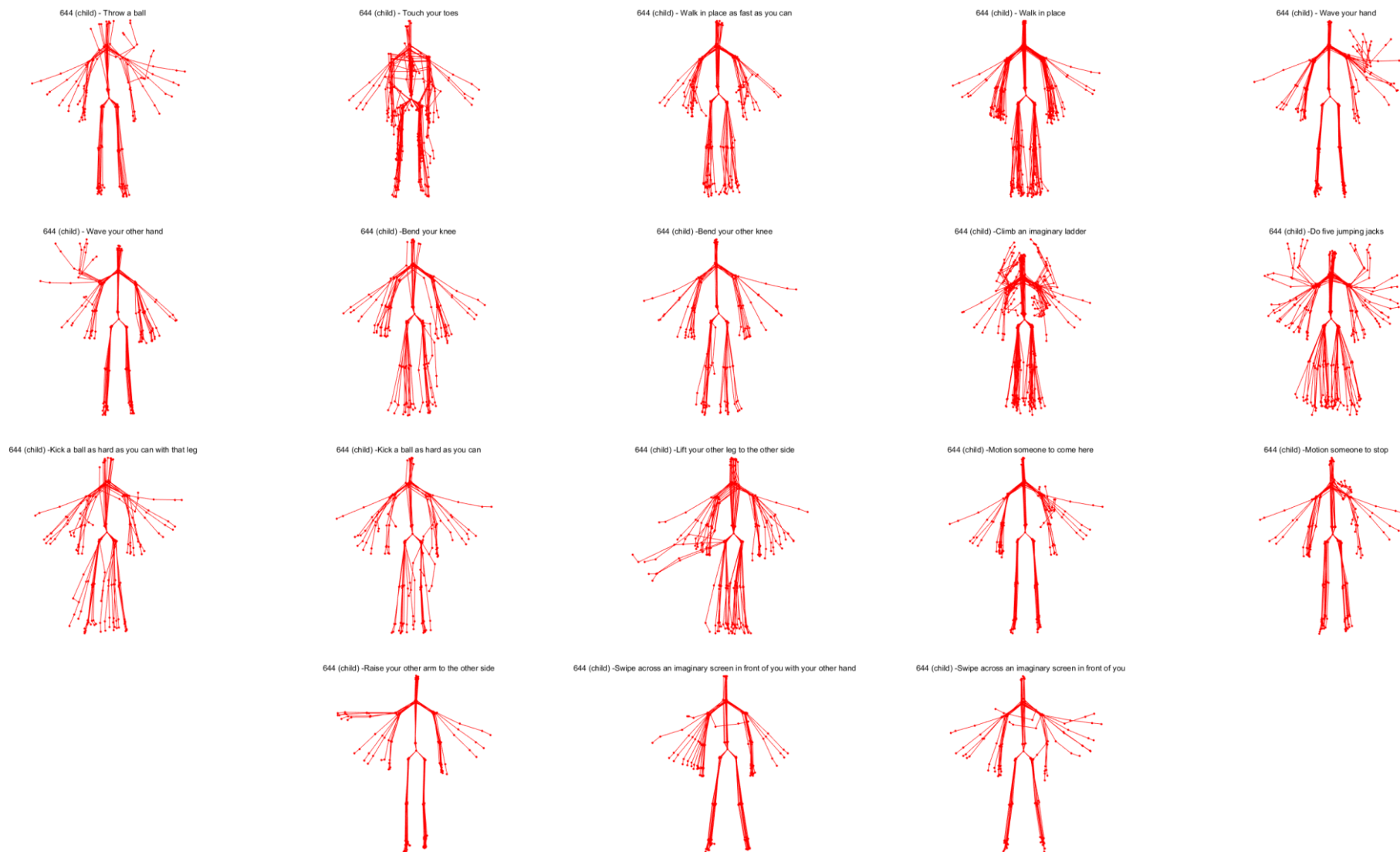
644 (child) - Throw a ball as far as you can



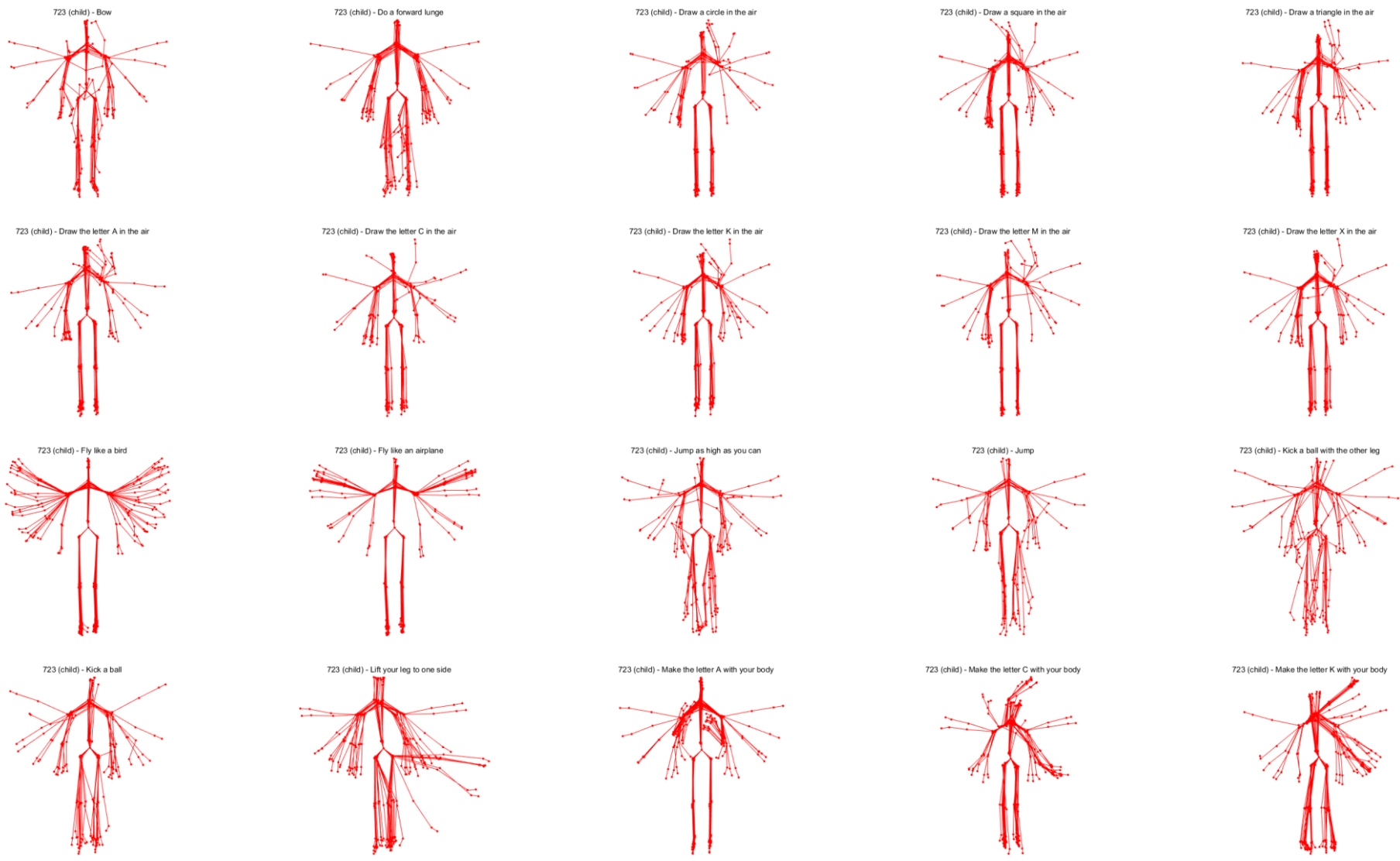
644 (child) - Throw a ball with your other arm



# Motion Visualizations, participant 644 (child)

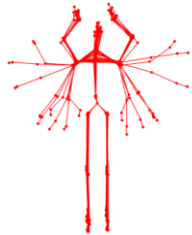


# Motion Visualizations, participant 723 (adult)



# Motion Visualizations, participant 723 (adult)

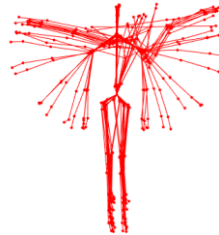
723 (child) - Make the letter M with your body



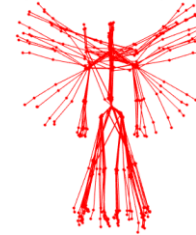
723 (child) - Make the letter P with your body



723 (child) - Make the letter T with your body



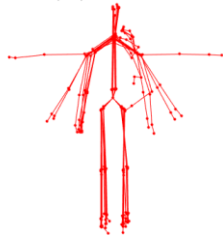
723 (child) - Make the letter X with your body



723 (child) - Make the letter Y with your body



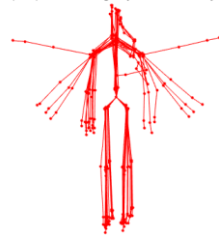
723 (child) - Point at the camera



723 (child) - Punch



723 (child) - Push an imaginary button in front of you



723 (child) - Put your hands on your hips and lean to the other side



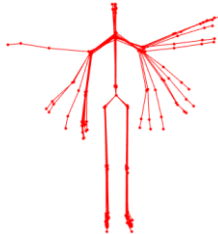
723 (child) - Put your hands on your hips and lean to the side



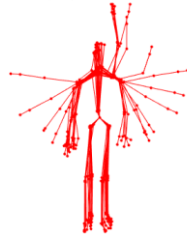
723 (child) - Put your hands on your hips and twist back and forth



723 (child) - Raise your arm to one side



723 (child) - Raise your hand



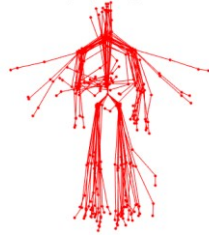
723 (child) - Raise your other hand



723 (child) - Run in place as fast as you can



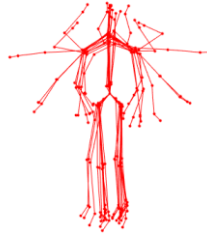
723 (child) - Run in place



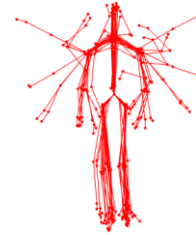
723 (child) - Swim



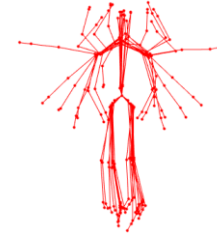
723 (child) - Throw a ball as far as you can with the other arm



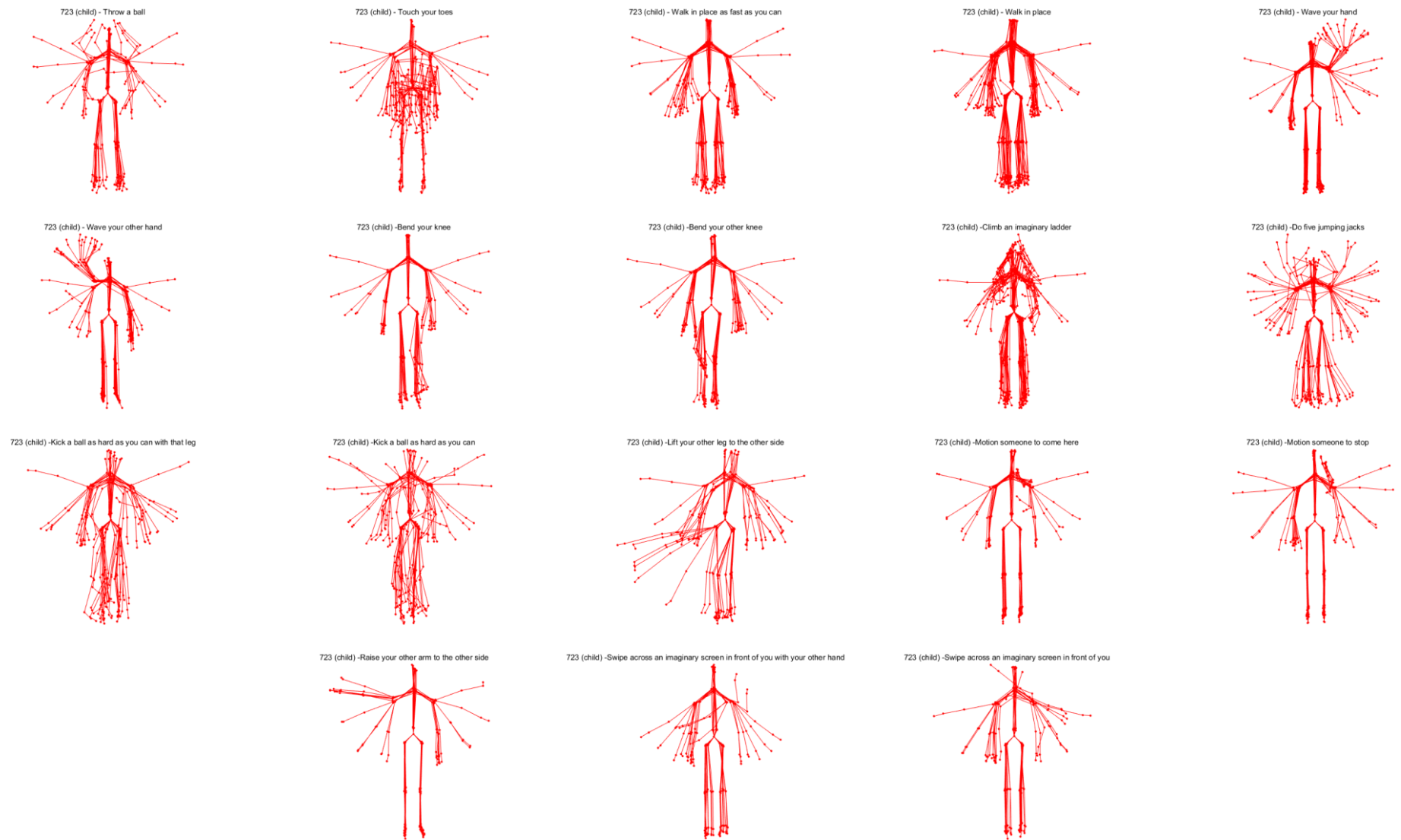
723 (child) - Throw a ball as far as you can



723 (child) - Throw a ball with your other arm

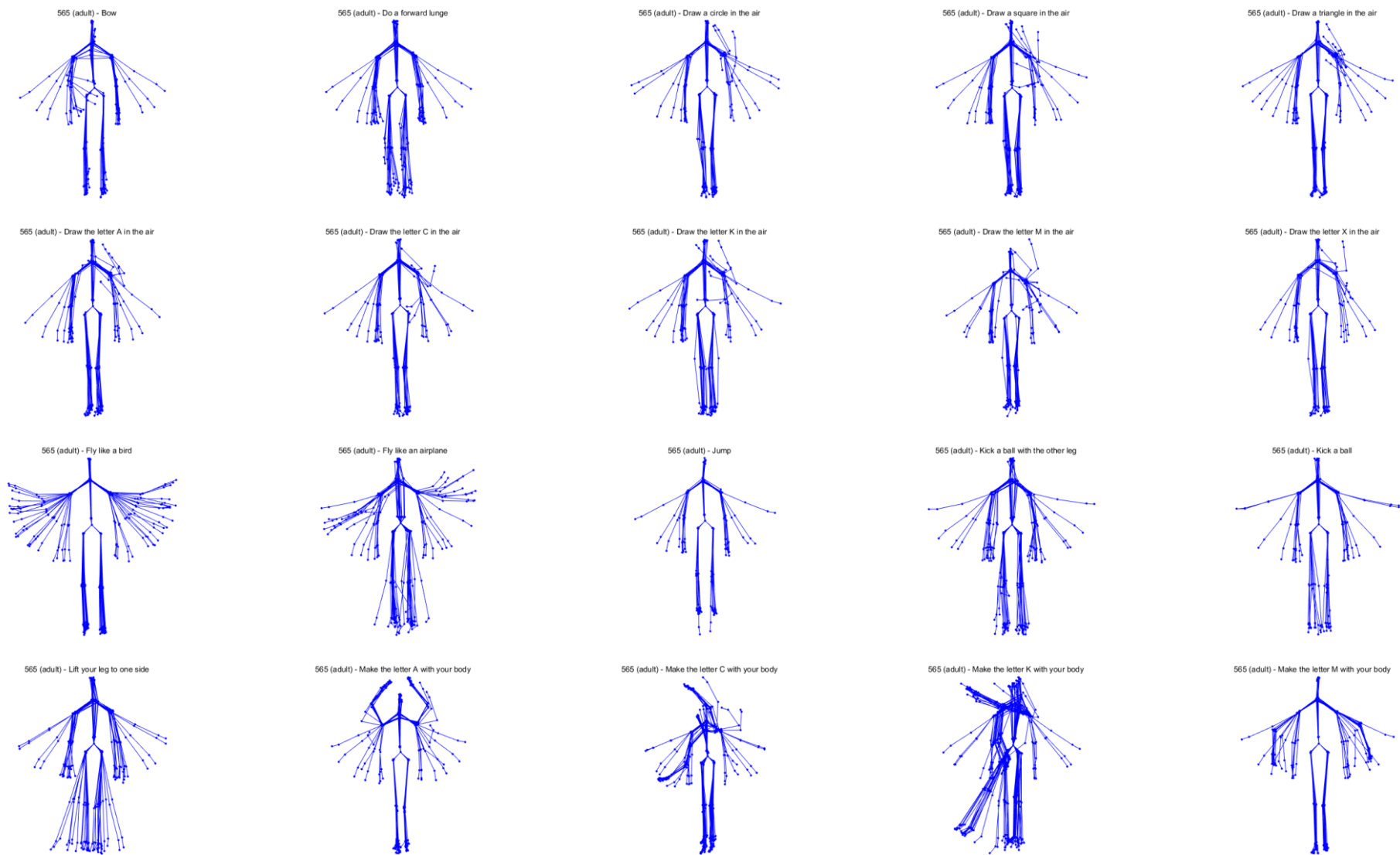


## Motion Visualizations, participant 723 (adult)



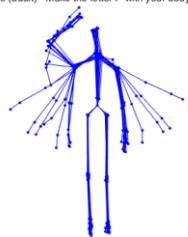


# Motion Visualizations, participant 565 (adult)

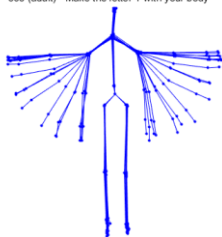


# Motion Visualizations, participant 565 (adult)

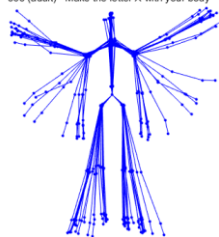
565 (adult) - Make the letter P with your body



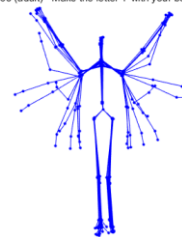
565 (adult) - Make the letter T with your body



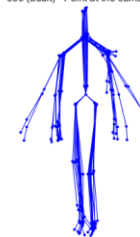
565 (adult) - Make the letter X with your body



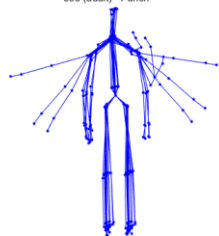
565 (adult) - Make the letter Y with your body



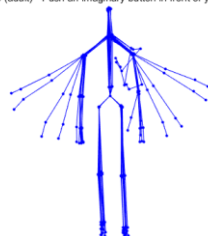
565 (adult) - Point at the camera



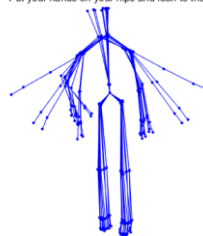
565 (adult) - Punch



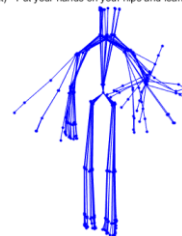
565 (adult) - Push an imaginary button in front of you



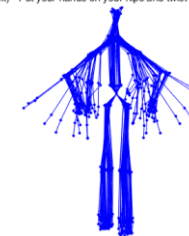
565 (adult) - Put your hands on your hips and lean to the other side



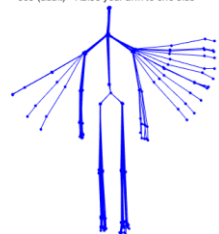
565 (adult) - Put your hands on your hips and lean to the side



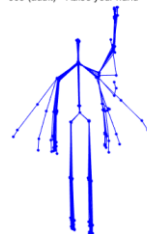
565 (adult) - Put your hands on your hips and twist back and forth



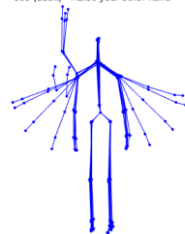
565 (adult) - Raise your arm to one side



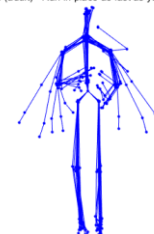
565 (adult) - Raise your hand



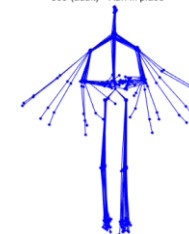
565 (adult) - Raise your other hand



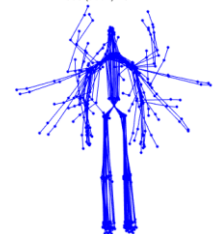
565 (adult) - Run in place as fast as you can



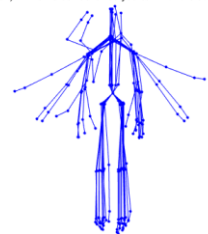
565 (adult) - Run in place



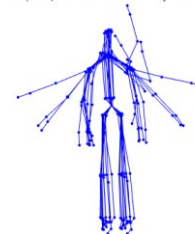
565 (adult) - Swim



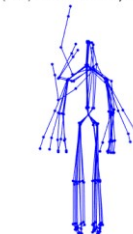
565 (adult) - Throw a ball as far as you can with the other arm



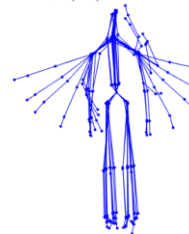
565 (adult) - Throw a ball as far as you can



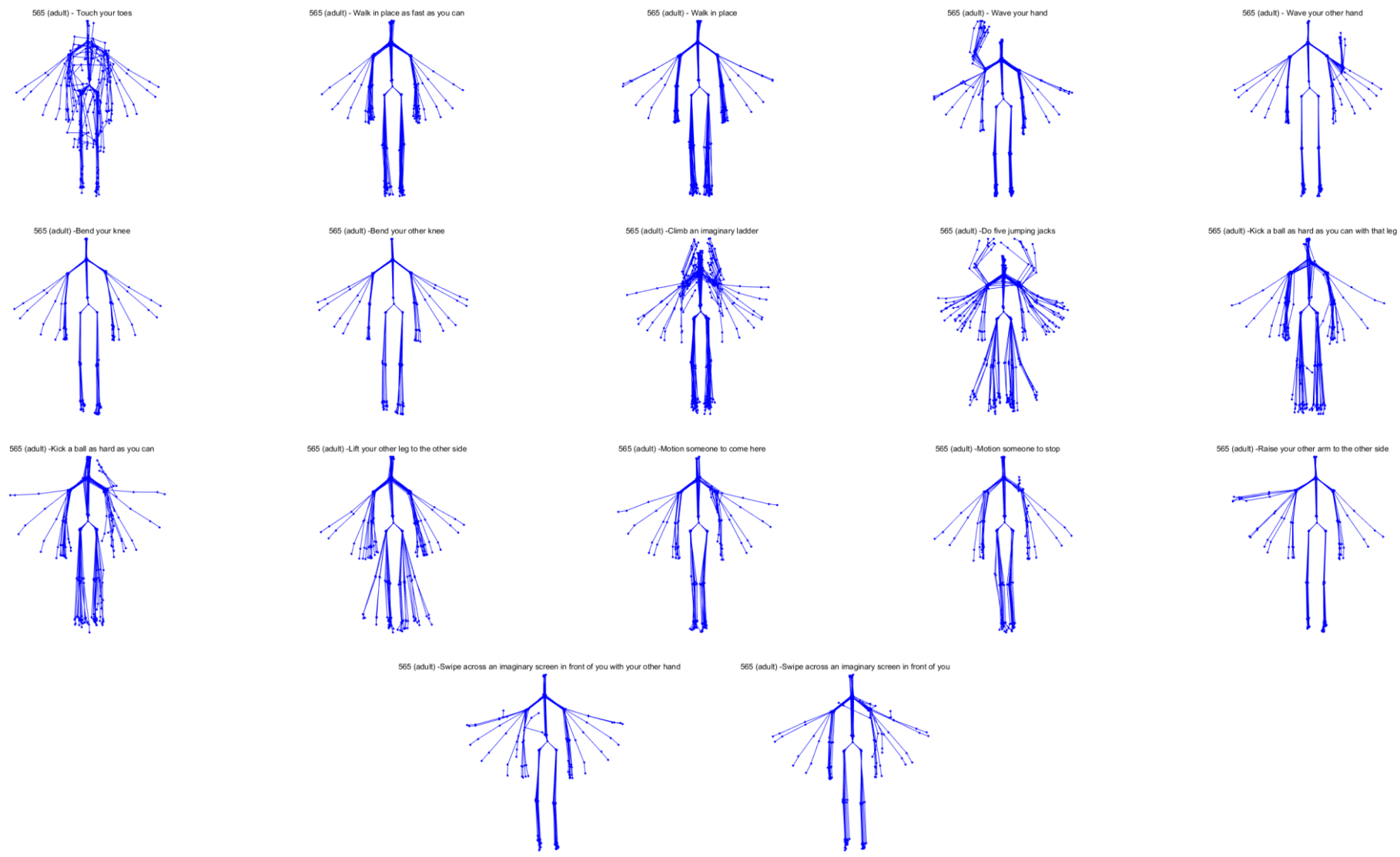
565 (adult) - Throw a ball with your other arm



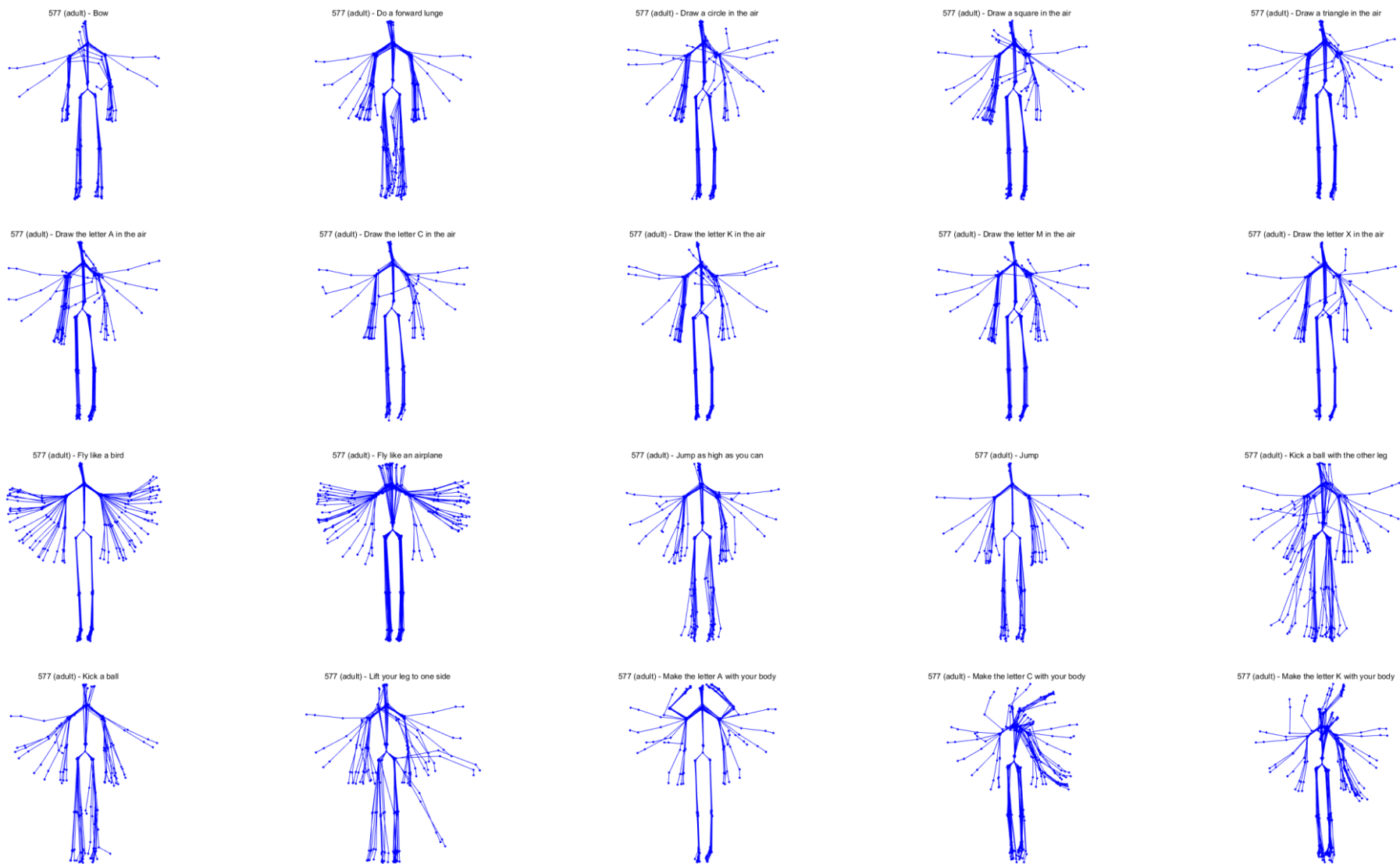
565 (adult) - Throw a ball



# Motion Visualizations, participant 565 (adult)

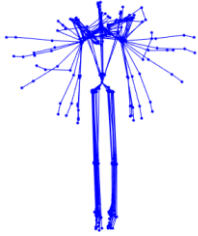


# Motion Visualizations, participant 577 (adult)

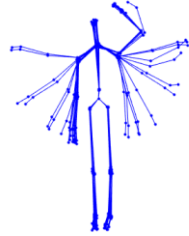


## Motion Visualizations, participant 577 (adult)

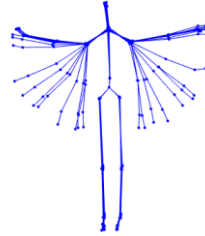
577 (adult) - Make the letter M with your body



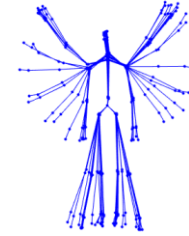
577 (adult) - Make the letter P with your body



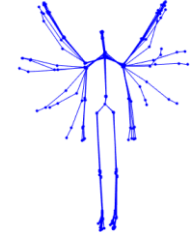
577 (adult) - Make the letter T with your body



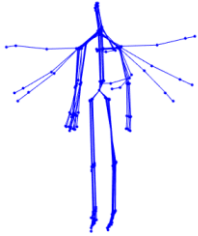
577 (adult) - Make the letter X with your body



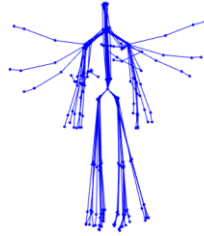
577 (adult) - Make the letter Y with your body



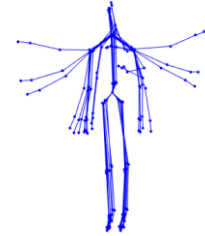
577 (adult) - Point at the camera



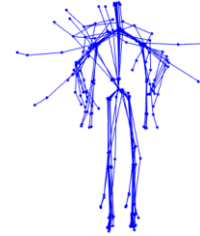
577 (adult) - Punch



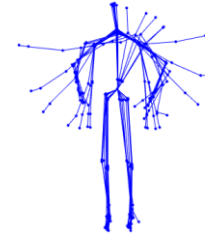
577 (adult) - Push an imaginary button in front of you



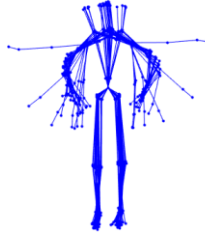
577 (adult) - Put your hands on your hips and lean to the other side



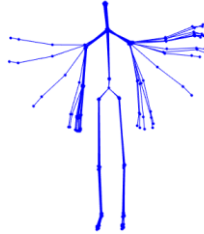
577 (adult) - Put your hands on your hips and lean to the side



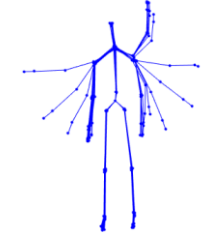
577 (adult) - Put your hands on your hips and twist back and forth



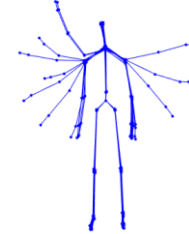
577 (adult) - Raise your arm to one side



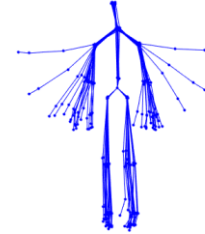
577 (adult) - Raise your hand



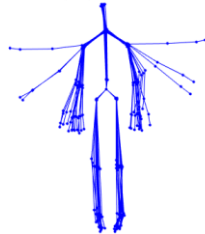
577 (adult) - Raise your other hand



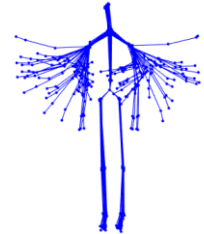
577 (adult) - Run in place as fast as you can



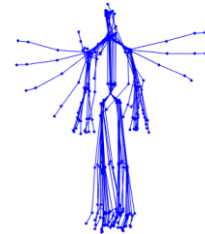
577 (adult) - Run in place



577 (adult) - Swim



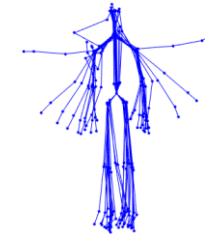
577 (adult) - Throw a ball as far as you can with the other arm



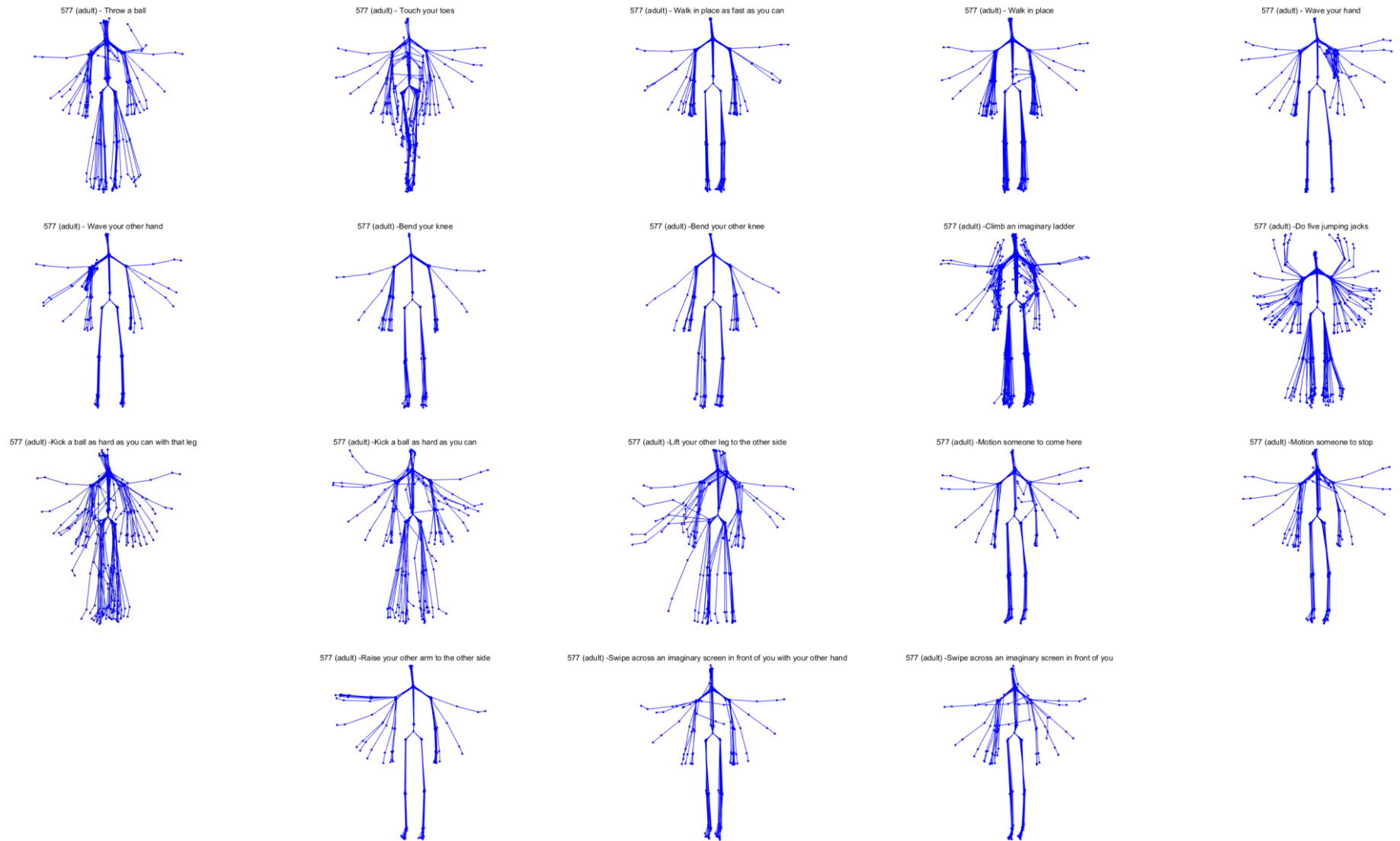
577 (adult) - Throw a ball as far as you can



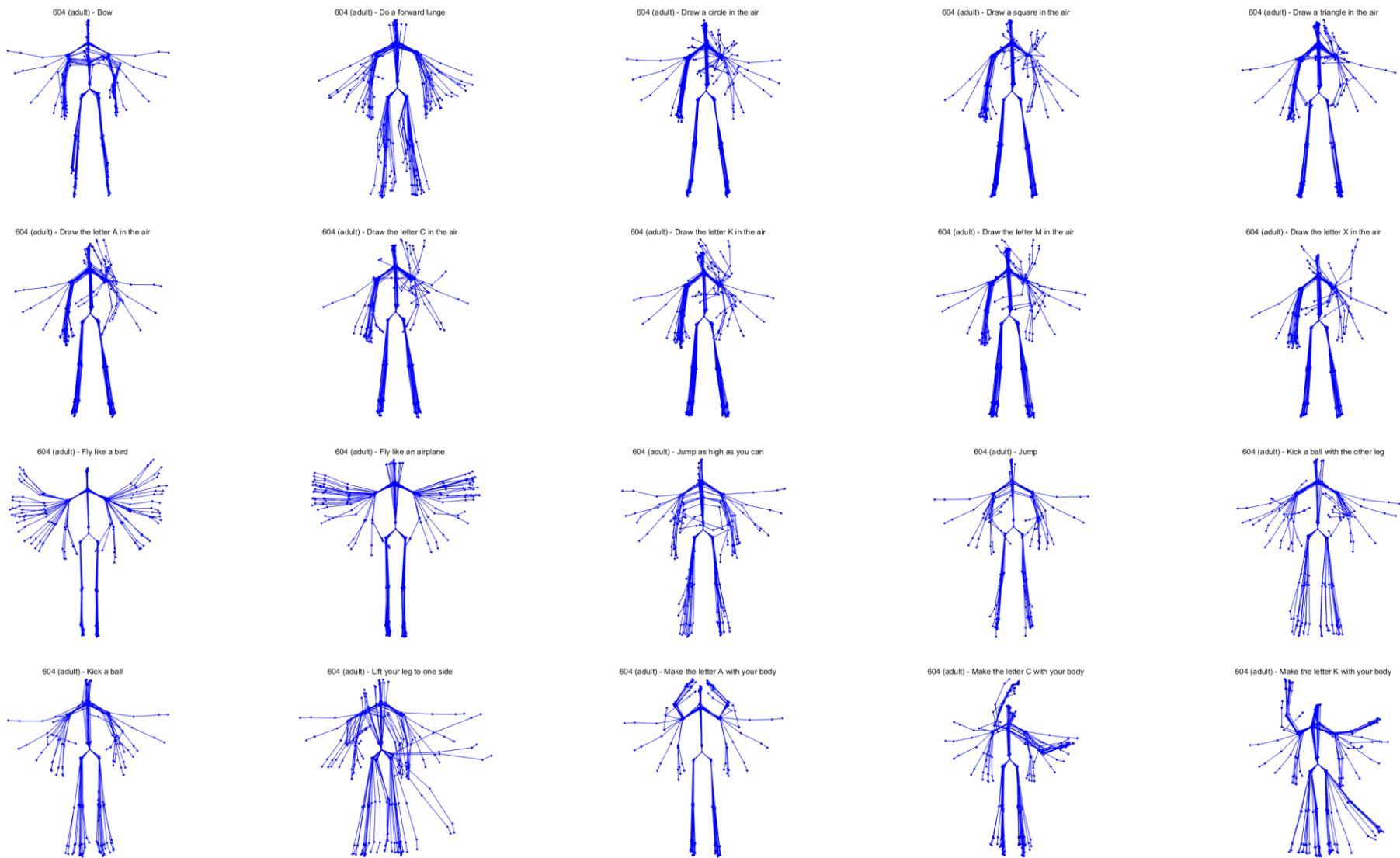
577 (adult) - Throw a ball with your other arm



## Motion Visualizations, participant 577 (adult)

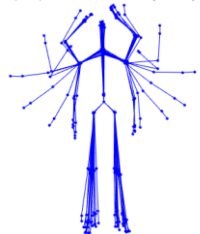


# Motion Visualizations, participant 604 (adult)

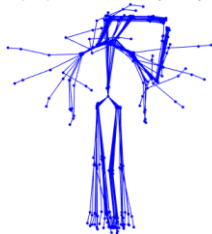


## Motion Visualizations, participant 604 (adult)

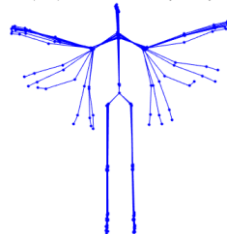
604 (adult) - Make the letter M with your body



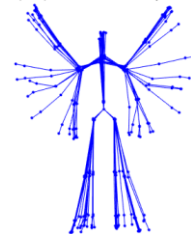
604 (adult) - Make the letter P with your body



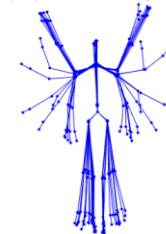
604 (adult) - Make the letter T with your body



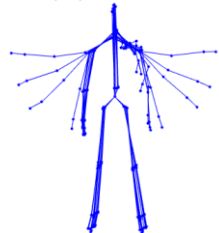
604 (adult) - Make the letter X with your body



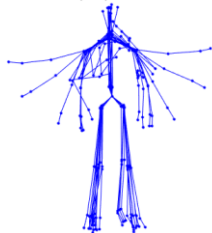
604 (adult) - Make the letter Y with your body



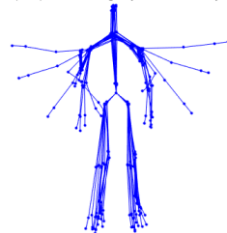
604 (adult) - Point at the camera



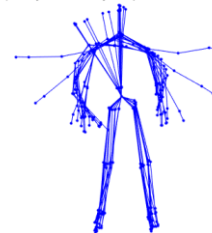
604 (adult) - Punch



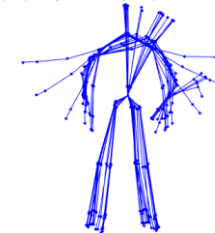
604 (adult) - Push an imaginary button in front of you



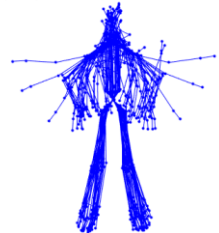
604 (adult) - Put your hands on your hips and lean to the other side



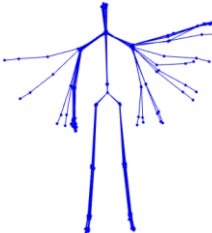
604 (adult) - Put your hands on your hips and lean to the side



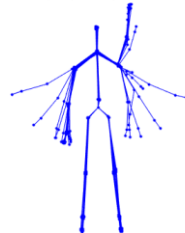
604 (adult) - Put your hands on your hips and twist back and forth



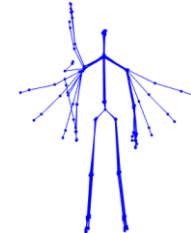
604 (adult) - Raise your arm to one side



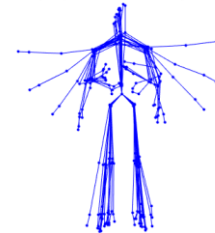
604 (adult) - Raise your hand



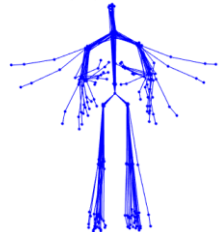
604 (adult) - Raise your other hand



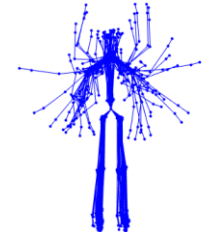
604 (adult) - Run in place as fast as you can



604 (adult) - Run in place



604 (adult) - Swim



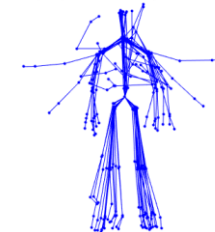
604 (adult) - Throw a ball as far as you can with the other arm



604 (adult) - Throw a ball as far as you can

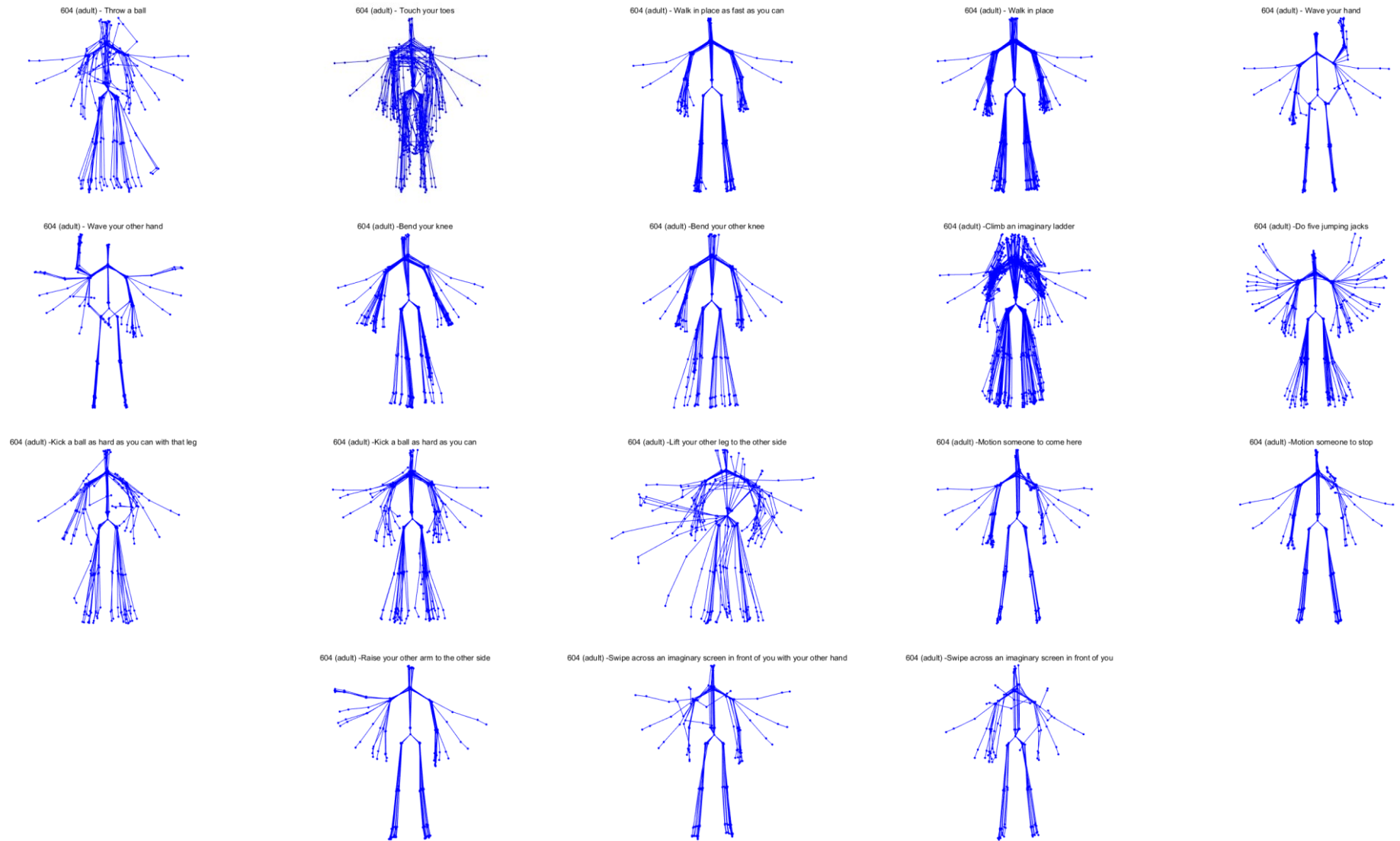


604 (adult) - Throw a ball with your other arm

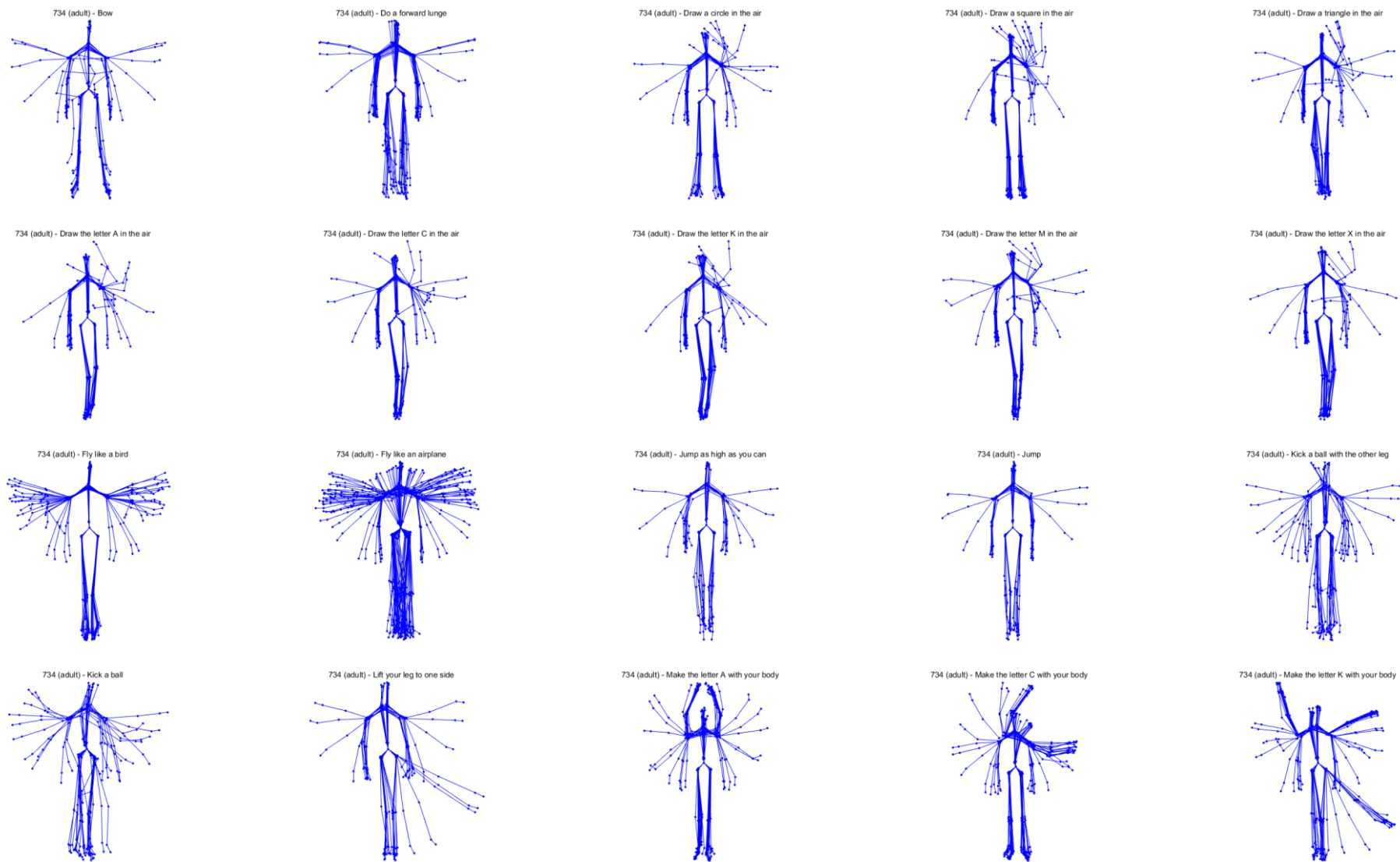




## Motion Visualizations, participant 604 (adult)

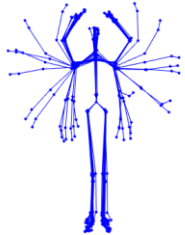


# Motion Visualizations, participant 734 (adult)

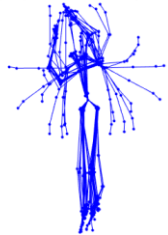


# Motion Visualizations, participant 734 (adult)

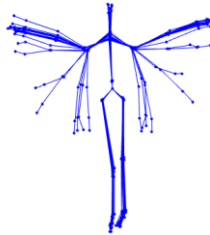
734 (adult) - Make the letter M with your body



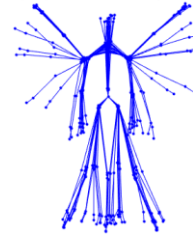
734 (adult) - Make the letter P with your body



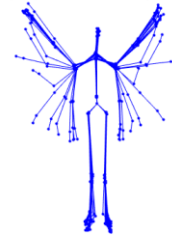
734 (adult) - Make the letter T with your body



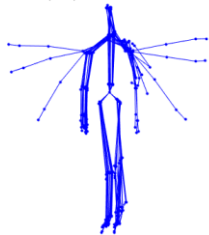
734 (adult) - Make the letter X with your body



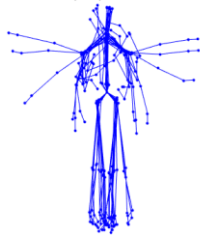
734 (adult) - Make the letter Y with your body



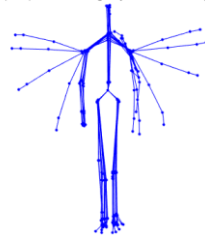
734 (adult) - Point at the camera



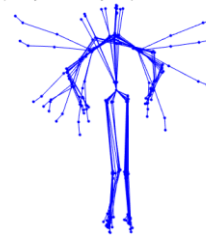
734 (adult) - Punch



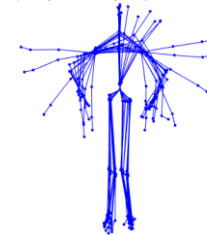
734 (adult) - Push an imaginary button in front of you



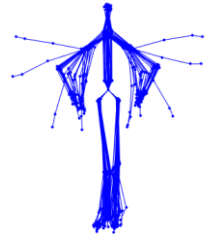
734 (adult) - Put your hands on your hips and lean to the other side



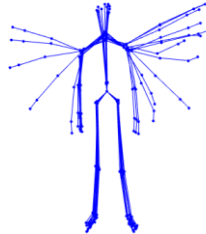
734 (adult) - Put your hands on your hips and lean to the side



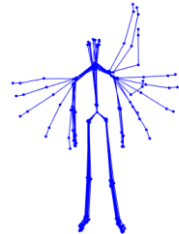
734 (adult) - Put your hands on your hips and twist back and forth



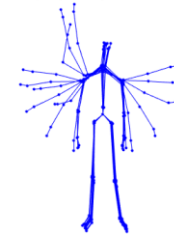
734 (adult) - Raise your arm to one side



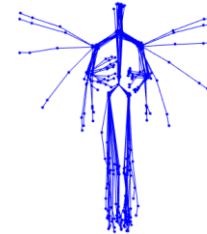
734 (adult) - Raise your hand



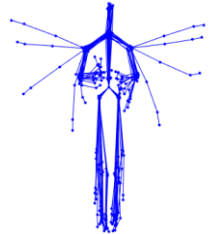
734 (adult) - Raise your other hand



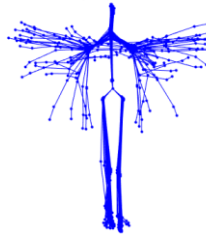
734 (adult) - Run in place as fast as you can



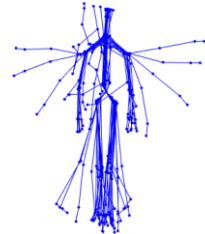
734 (adult) - Run in place



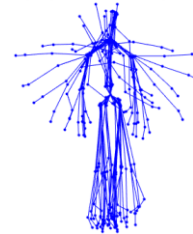
734 (adult) - Swim



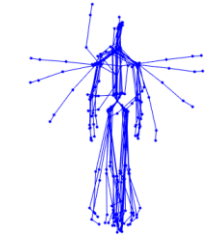
734 (adult) - Throw a ball as far as you can with the other arm



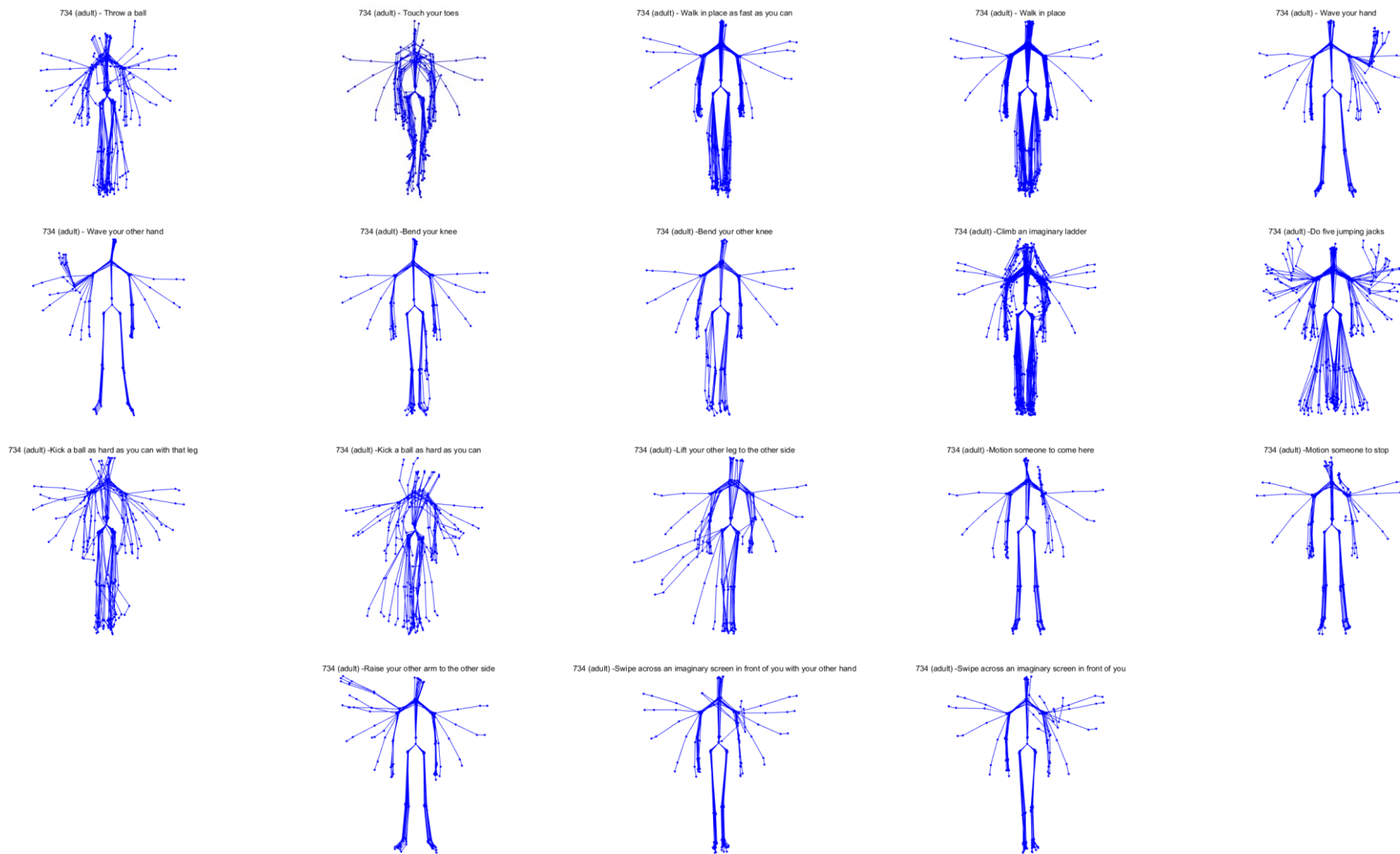
734 (adult) - Throw a ball as far as you can



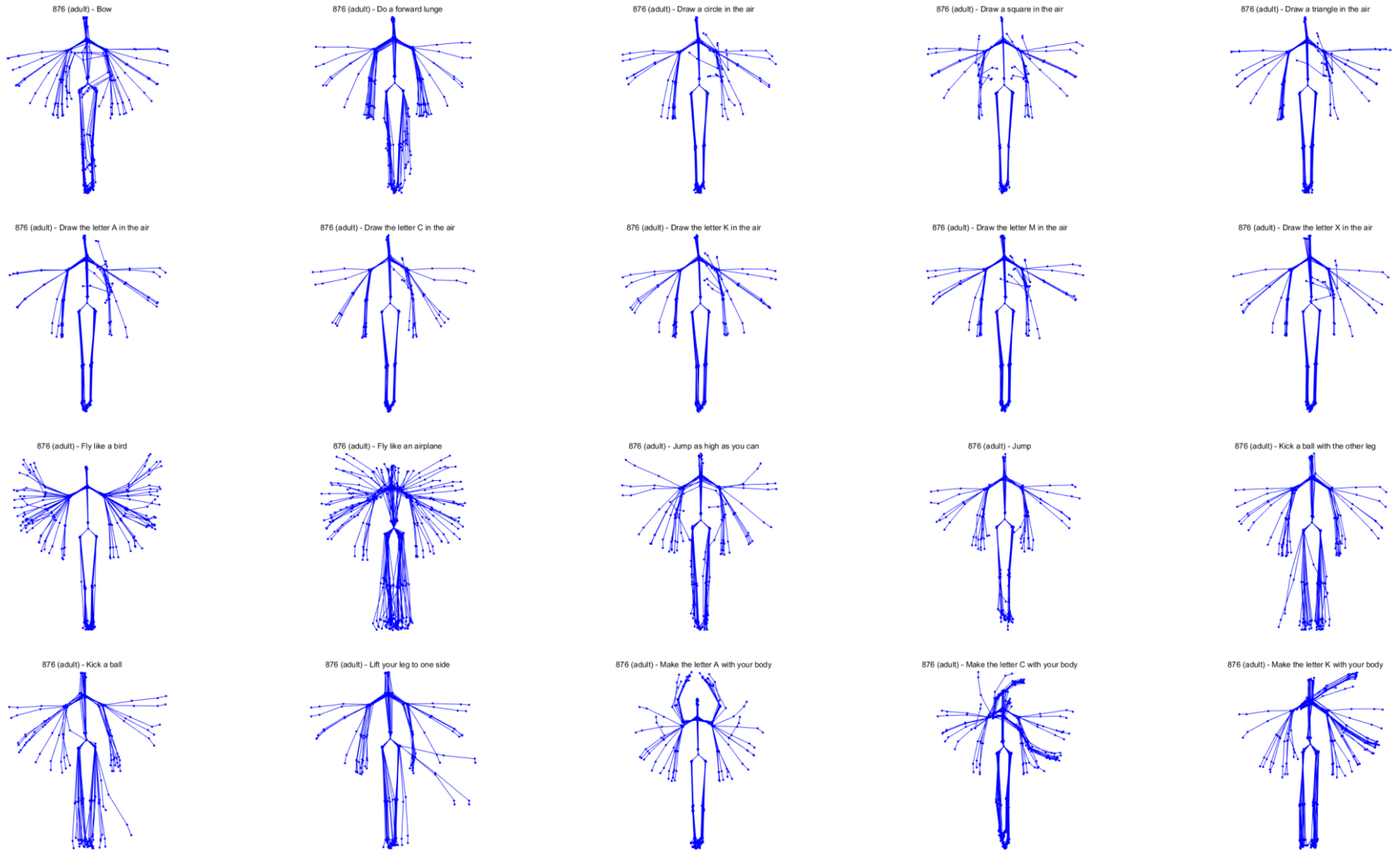
734 (adult) - Throw a ball with your other arm



# Motion Visualizations, participant 734 (adult)

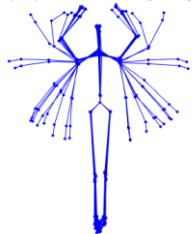


## Motion Visualizations, participant 876 (adult)

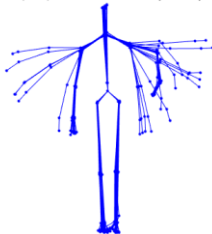


# Motion Visualizations, participant 876 (adult)

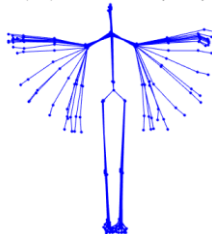
876 (adult) - Make the letter M with your body



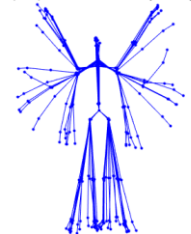
876 (adult) - Make the letter P with your body



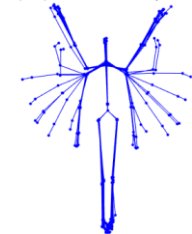
876 (adult) - Make the letter T with your body



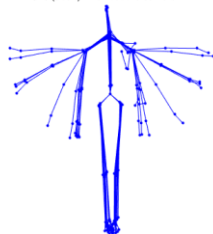
876 (adult) - Make the letter X with your body



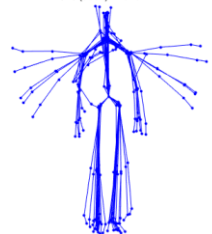
876 (adult) - Make the letter Y with your body



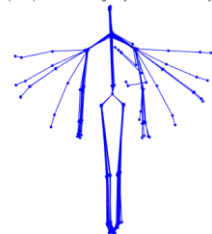
876 (adult) - Point at the camera



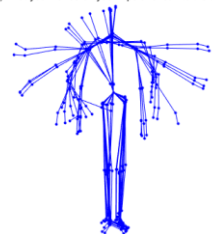
876 (adult) - Punch



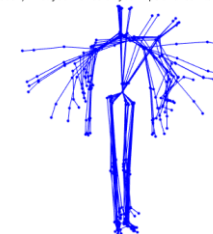
876 (adult) - Push an imaginary button in front of you



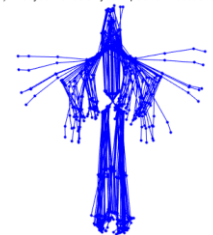
876 (adult) - Put your hands on your hips and lean to the other side



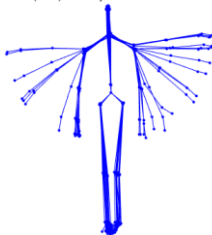
876 (adult) - Put your hands on your hips and lean to the side



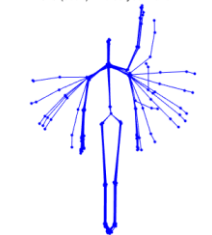
876 (adult) - Put your hands on your hips and twist back and forth



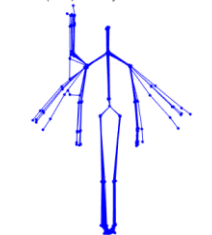
876 (adult) - Raise your arm to one side



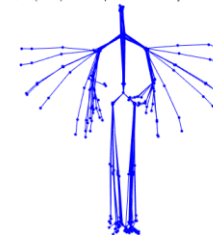
876 (adult) - Raise your hand



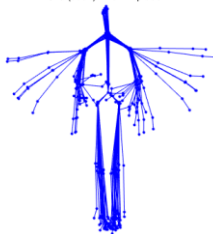
876 (adult) - Raise your other hand



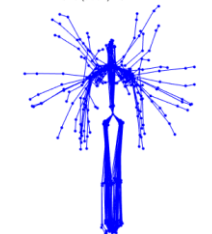
876 (adult) - Run in place as fast as you can



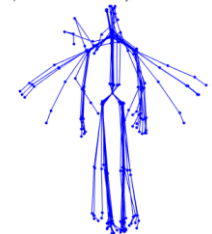
876 (adult) - Run in place



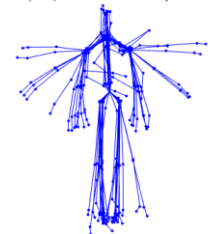
876 (adult) - Swim



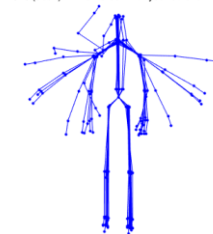
876 (adult) - Throw a ball as far as you can with the other arm



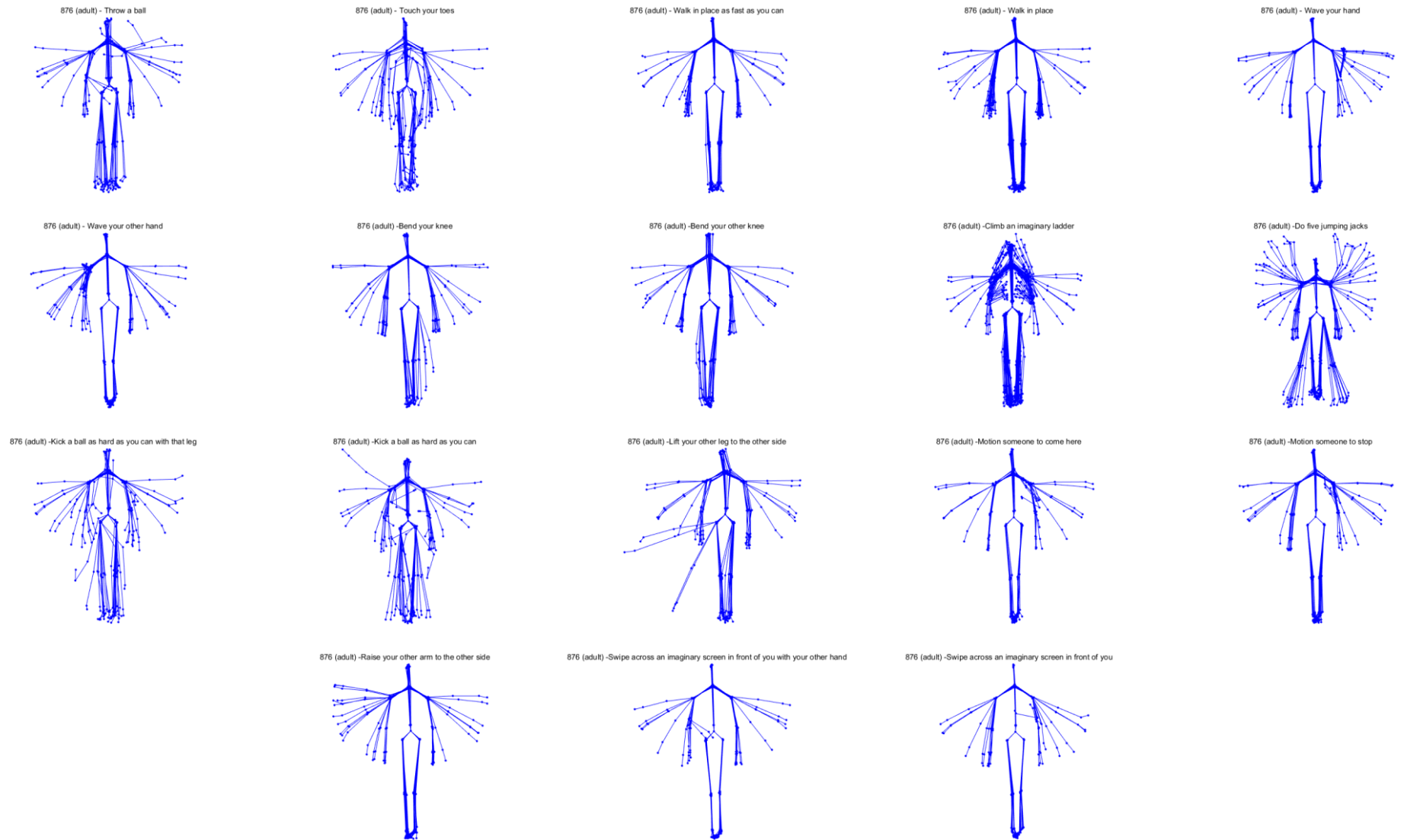
876 (adult) - Throw a ball as far as you can



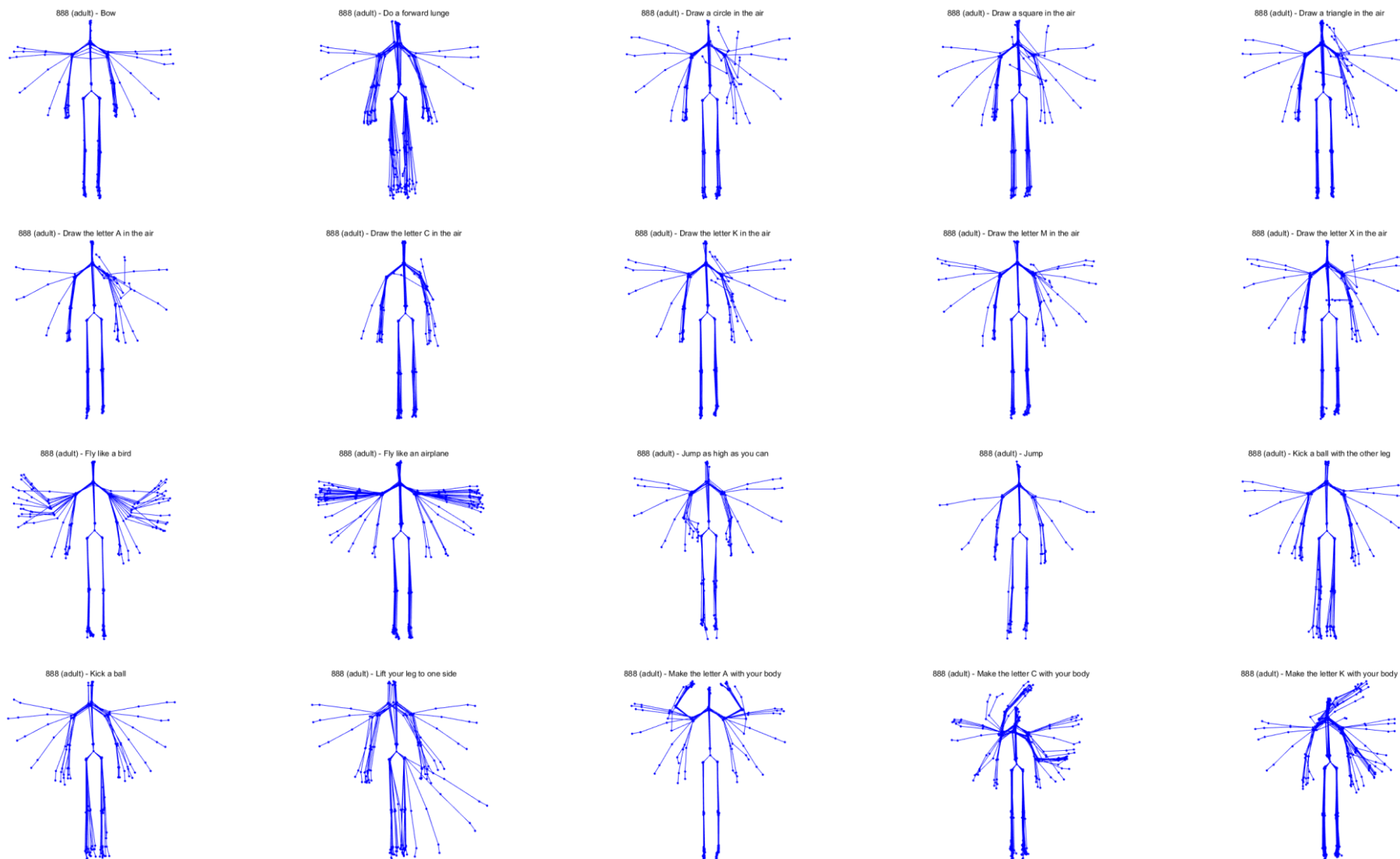
876 (adult) - Throw a ball with your other arm



# Motion Visualizations, participant 876 (adult)



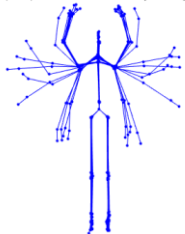
# Motion Visualizations, participant 888 (adult)



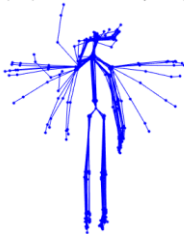


## Motion Visualizations, participant 888 (adult)

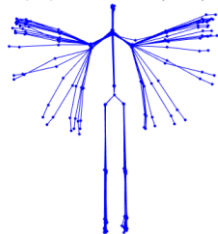
888 (adult) - Make the letter M with your body



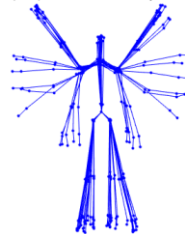
888 (adult) - Make the letter P with your body



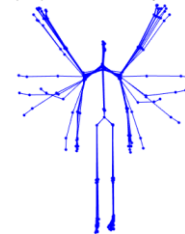
888 (adult) - Make the letter T with your body



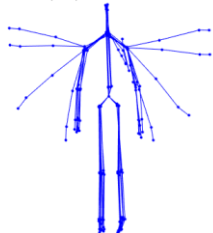
888 (adult) - Make the letter X with your body



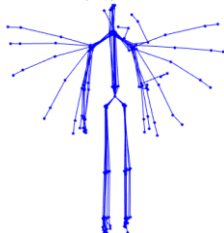
888 (adult) - Make the letter Y with your body



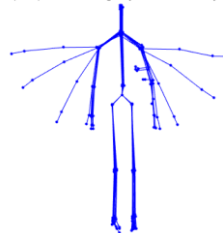
888 (adult) - Point at the camera



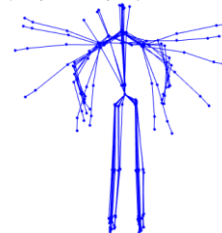
888 (adult) - Punch



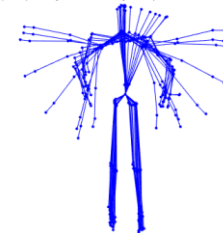
888 (adult) - Push an imaginary button in front of you



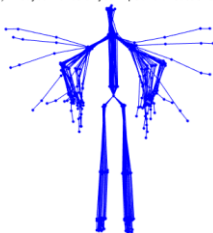
888 (adult) - Put your hands on your hips and lean to the other side



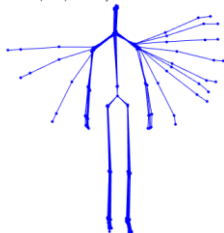
888 (adult) - Put your hands on your hips and lean to the side



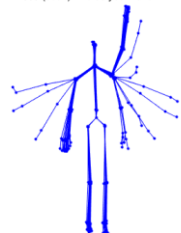
888 (adult) - Put your hands on your hips and twist back and forth



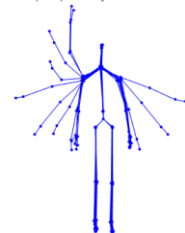
888 (adult) - Raise your arm to one side



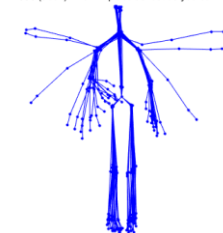
888 (adult) - Raise your hand



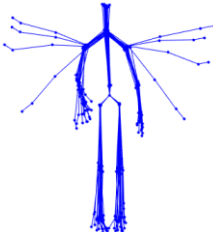
888 (adult) - Raise your other hand



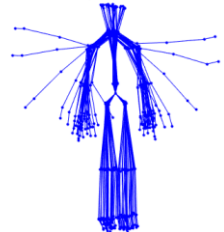
888 (adult) - Run in place as fast as you can



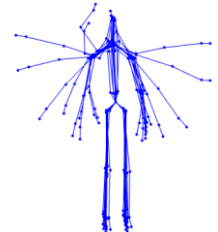
888 (adult) - Run in place



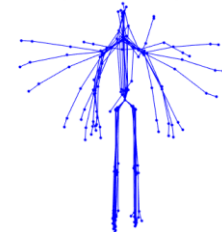
888 (adult) - Swim



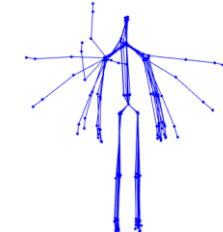
888 (adult) - Throw a ball as far as you can with the other arm



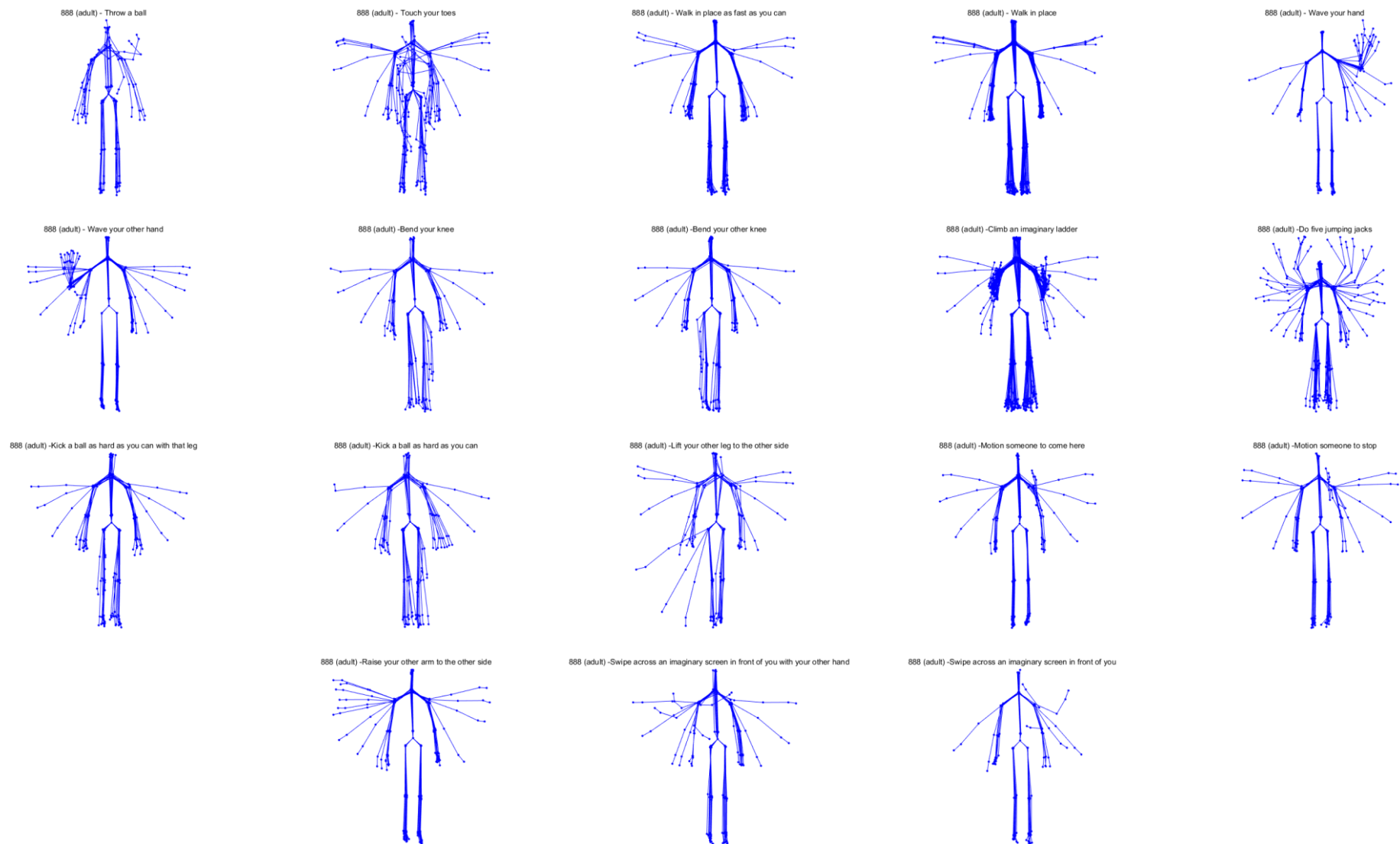
888 (adult) - Throw a ball as far as you can



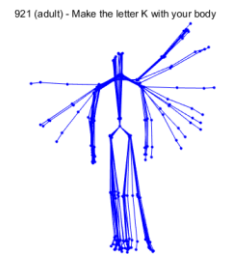
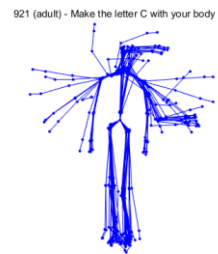
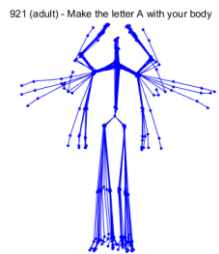
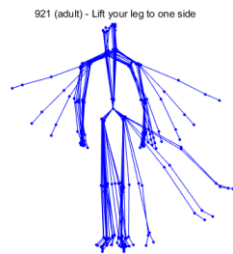
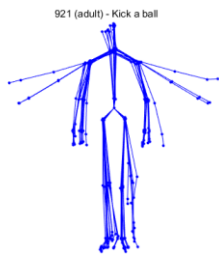
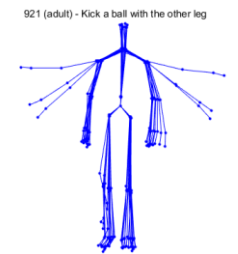
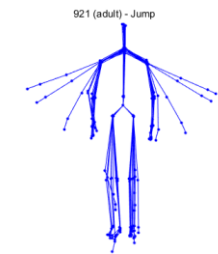
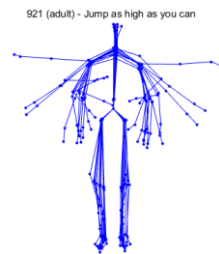
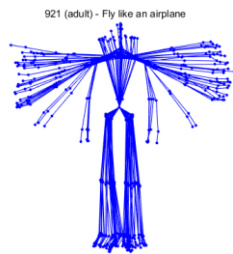
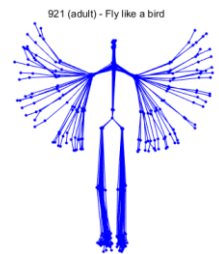
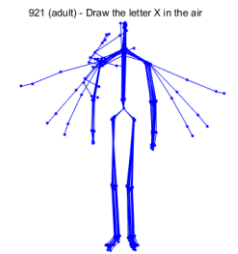
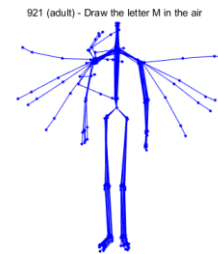
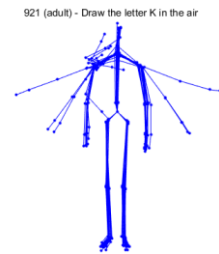
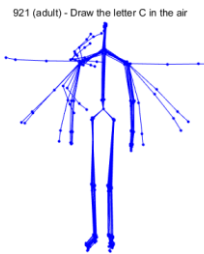
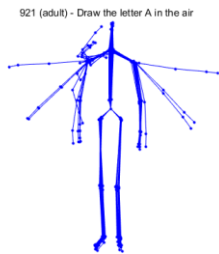
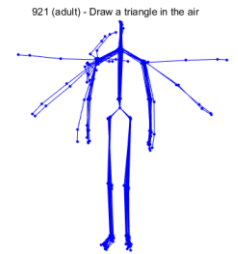
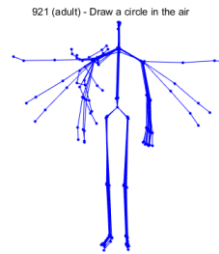
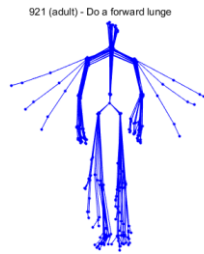
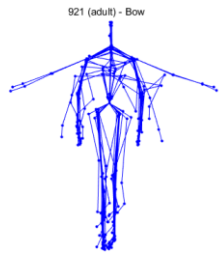
888 (adult) - Throw a ball with your other arm



# Motion Visualizations, participant 888 (adult)

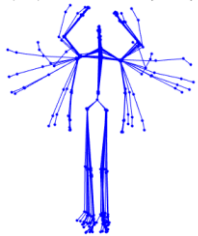


## Motion Visualizations, participant 921 (adult)

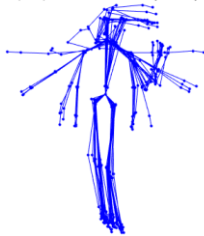


## Motion Visualizations, participant 921 (adult)

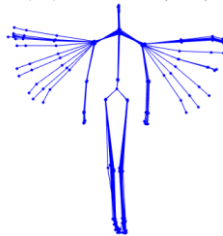
921 (adult) - Make the letter M with your body



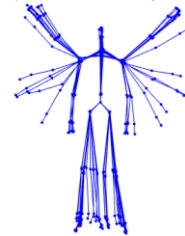
921 (adult) - Make the letter P with your body



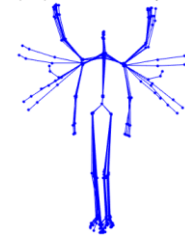
921 (adult) - Make the letter T with your body



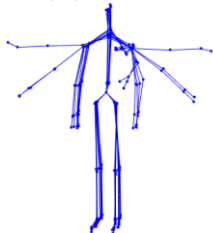
921 (adult) - Make the letter X with your body



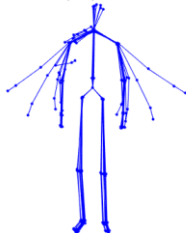
921 (adult) - Make the letter Y with your body



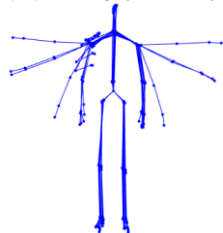
921 (adult) - Point at the camera



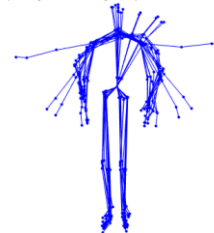
921 (adult) - Punch



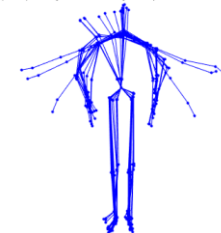
921 (adult) - Push an imaginary button in front of you



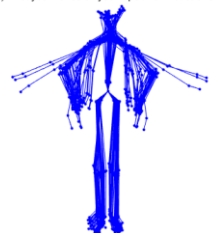
921 (adult) - Put your hands on your hips and lean to the other side



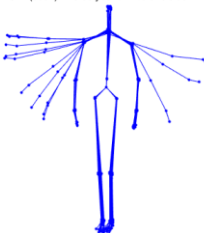
921 (adult) - Put your hands on your hips and lean to the side



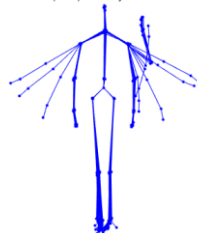
921 (adult) - Put your hands on your hips and twist back and forth



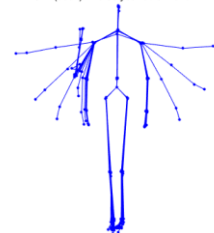
921 (adult) - Raise your arm to one side



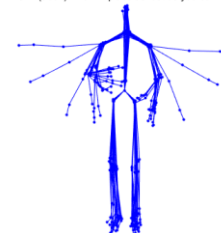
921 (adult) - Raise your hand



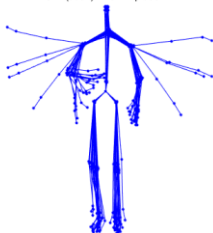
921 (adult) - Raise your other hand



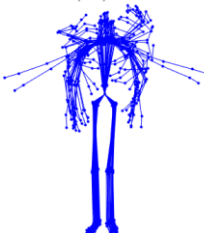
921 (adult) - Run in place as fast as you can



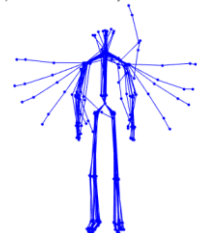
921 (adult) - Run in place



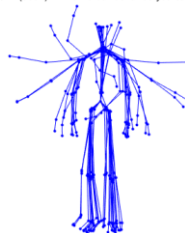
921 (adult) - Swim



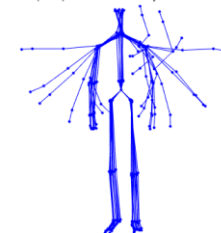
921 (adult) - Throw a ball as far as you can with the other arm



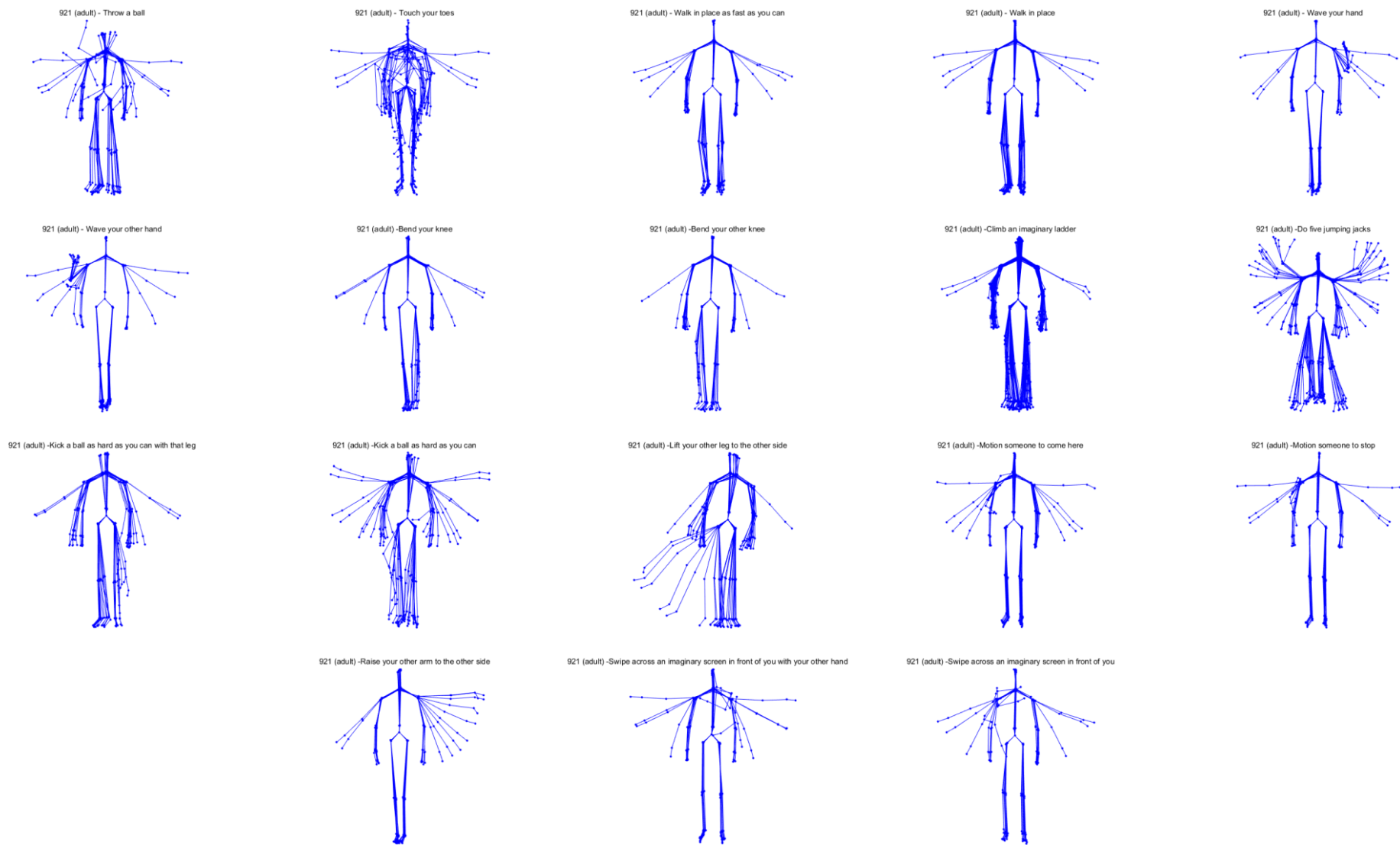
921 (adult) - Throw a ball as far as you can



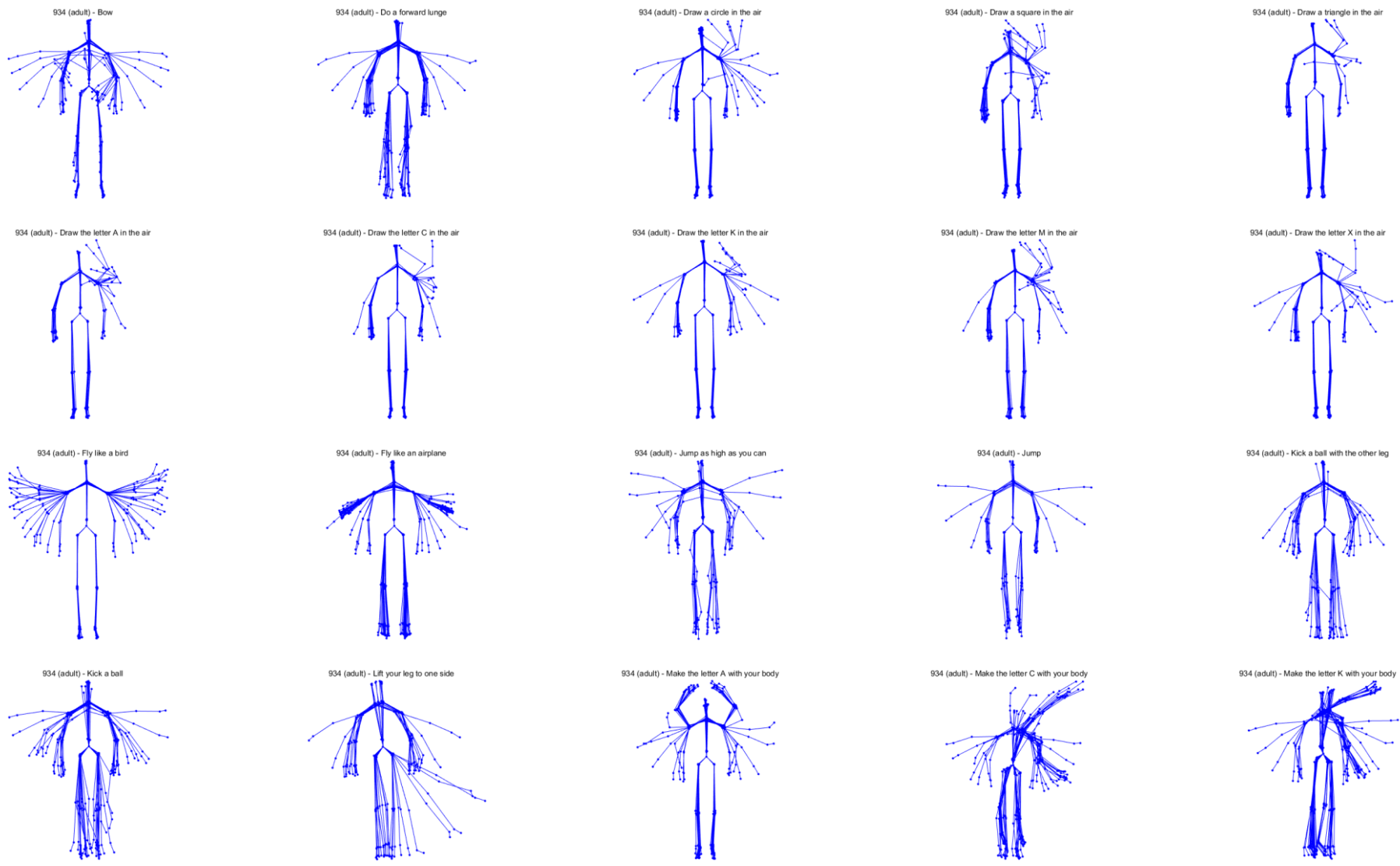
921 (adult) - Throw a ball with your other arm



# Motion Visualizations, participant 921 (adult)

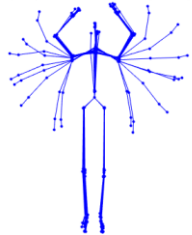


# Motion Visualizations, participant 934 (adult)

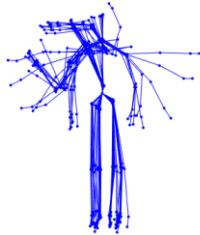


## Motion Visualizations, participant 934 (adult)

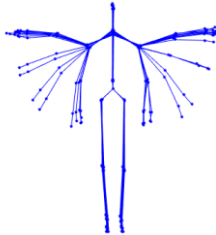
934 (adult) - Make the letter M with your body



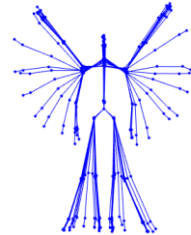
934 (adult) - Make the letter P with your body



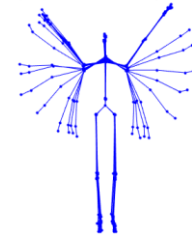
934 (adult) - Make the letter T with your body



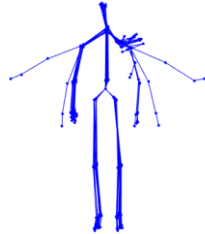
934 (adult) - Make the letter X with your body



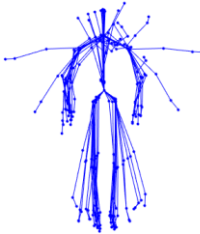
934 (adult) - Make the letter Y with your body



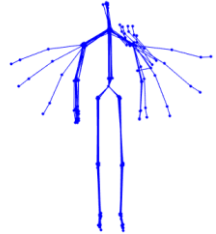
934 (adult) - Point at the camera



934 (adult) - Punch



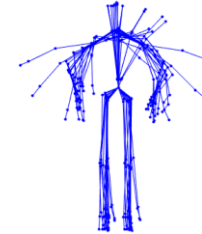
934 (adult) - Push an imaginary button in front of you



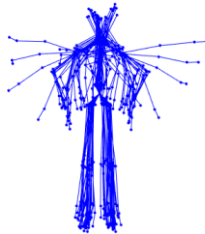
934 (adult) - Put your hands on your hips and lean to the other side



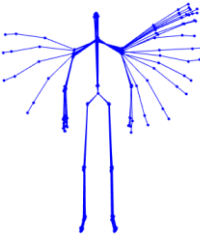
934 (adult) - Put your hands on your hips and lean to the side



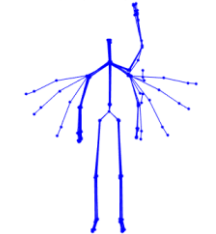
934 (adult) - Put your hands on your hips and twist back and forth



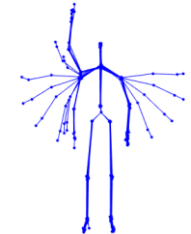
934 (adult) - Raise your arm to one side



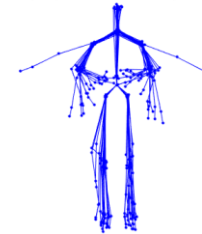
934 (adult) - Raise your hand



934 (adult) - Raise your other hand



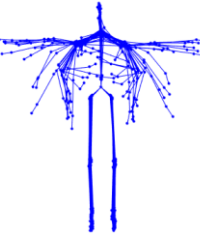
934 (adult) - Run in place as fast as you can



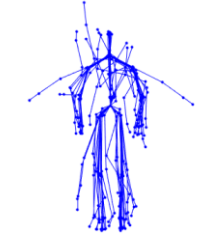
934 (adult) - Run in place



934 (adult) - Swim



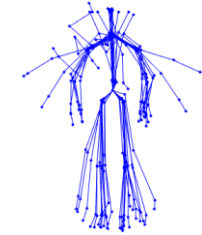
934 (adult) - Throw a ball as far as you can with the other arm



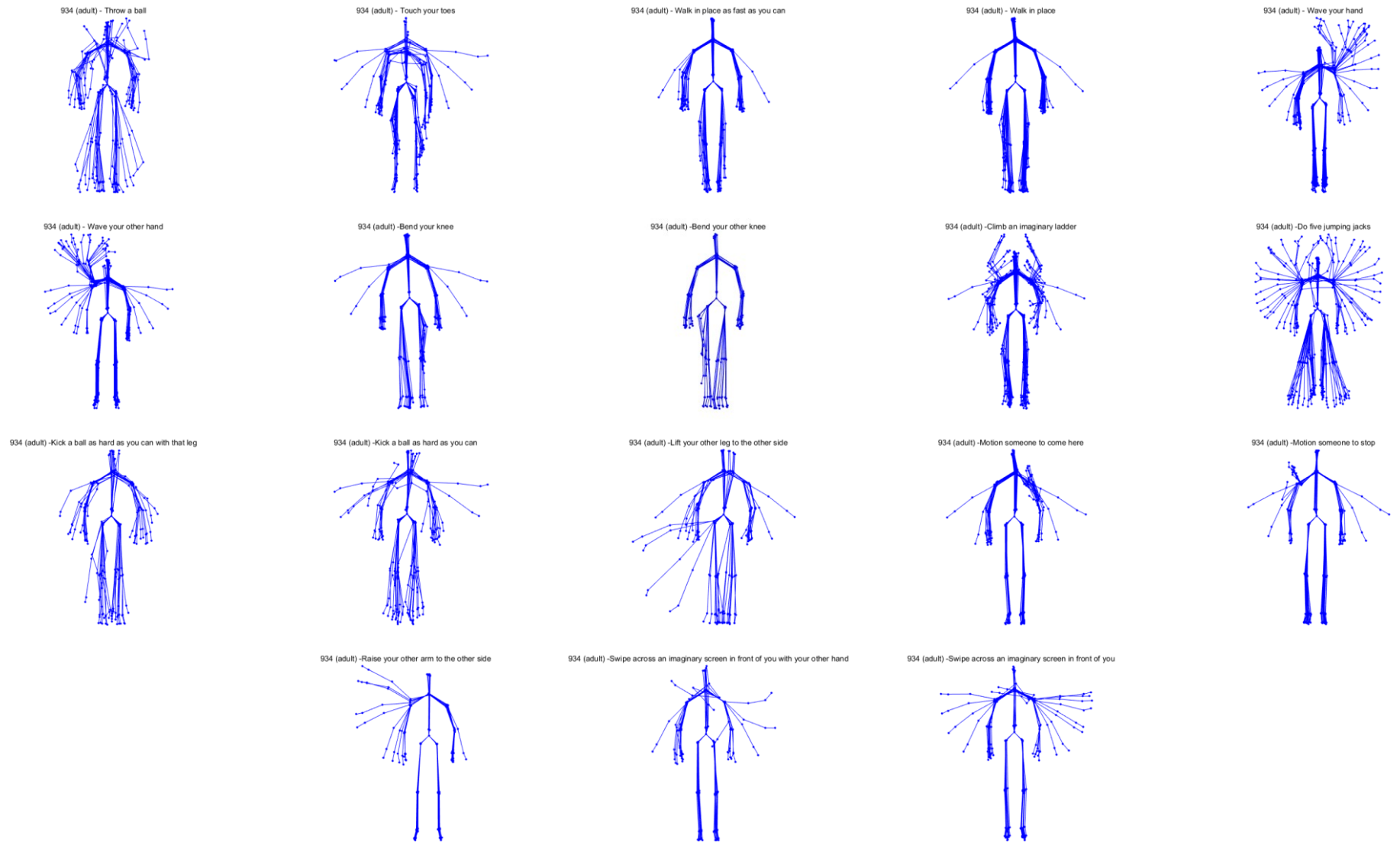
934 (adult) - Throw a ball as far as you can



934 (adult) - Throw a ball with your other arm

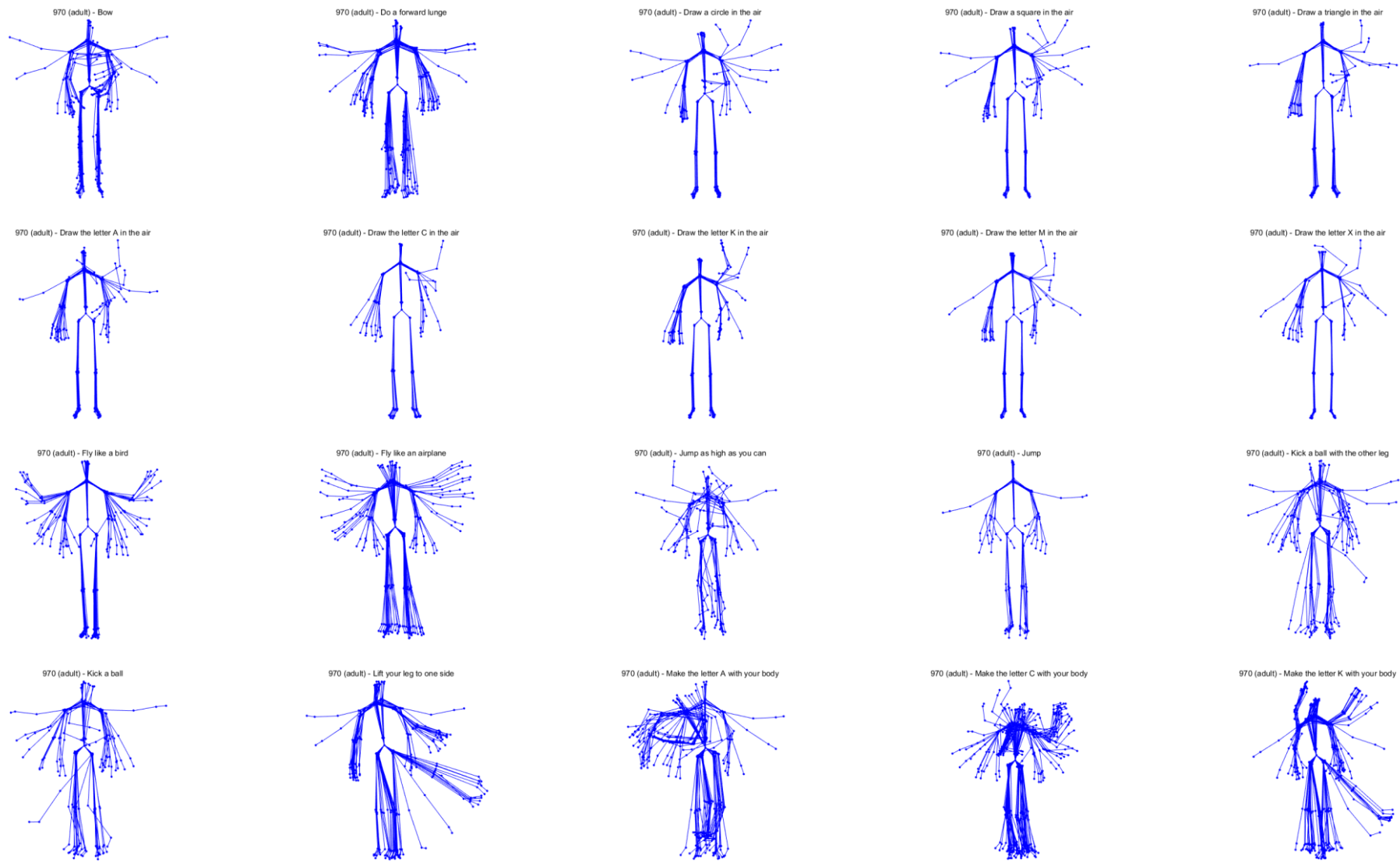


# Motion Visualizations, participant 934 (adult)

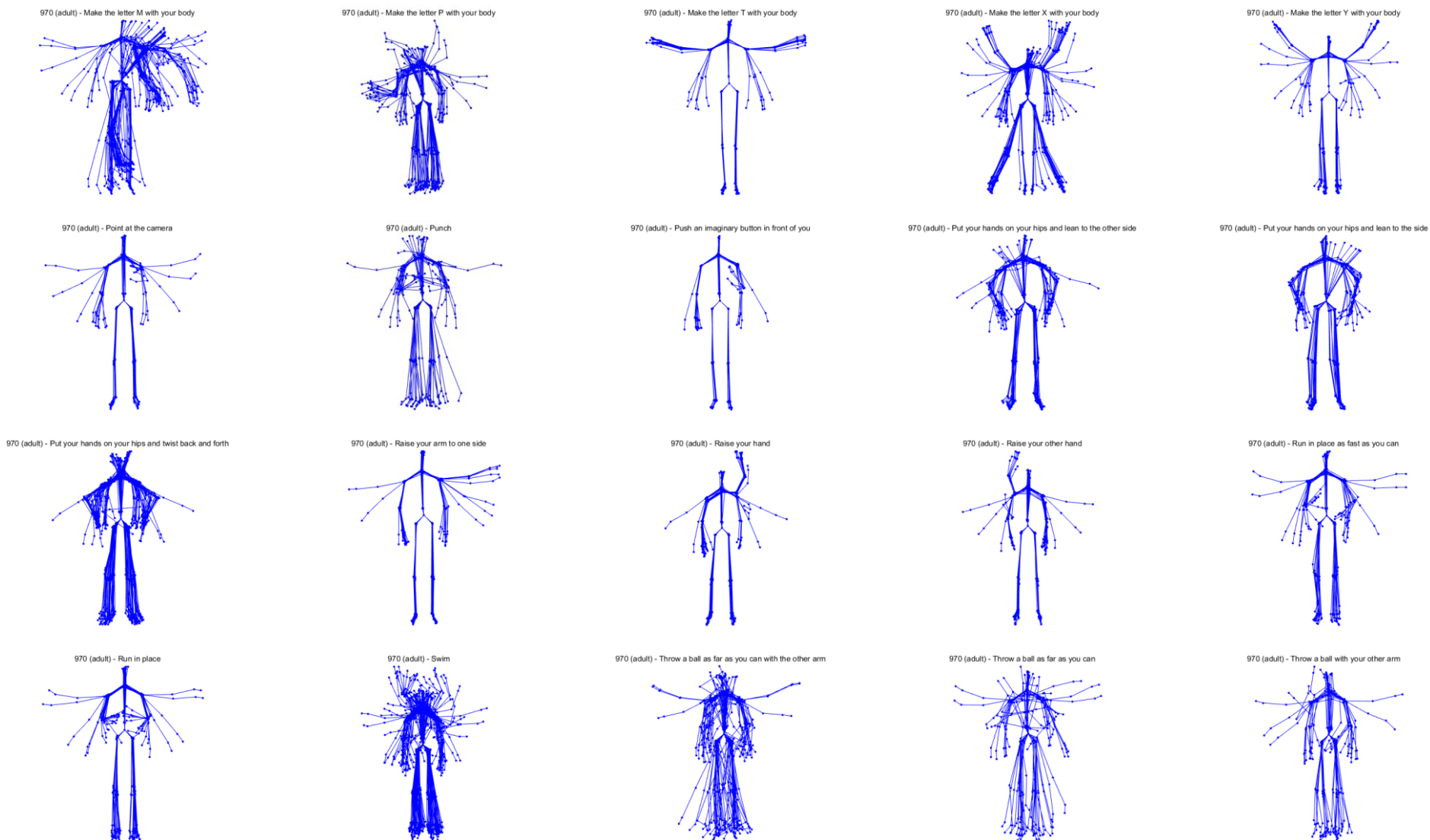




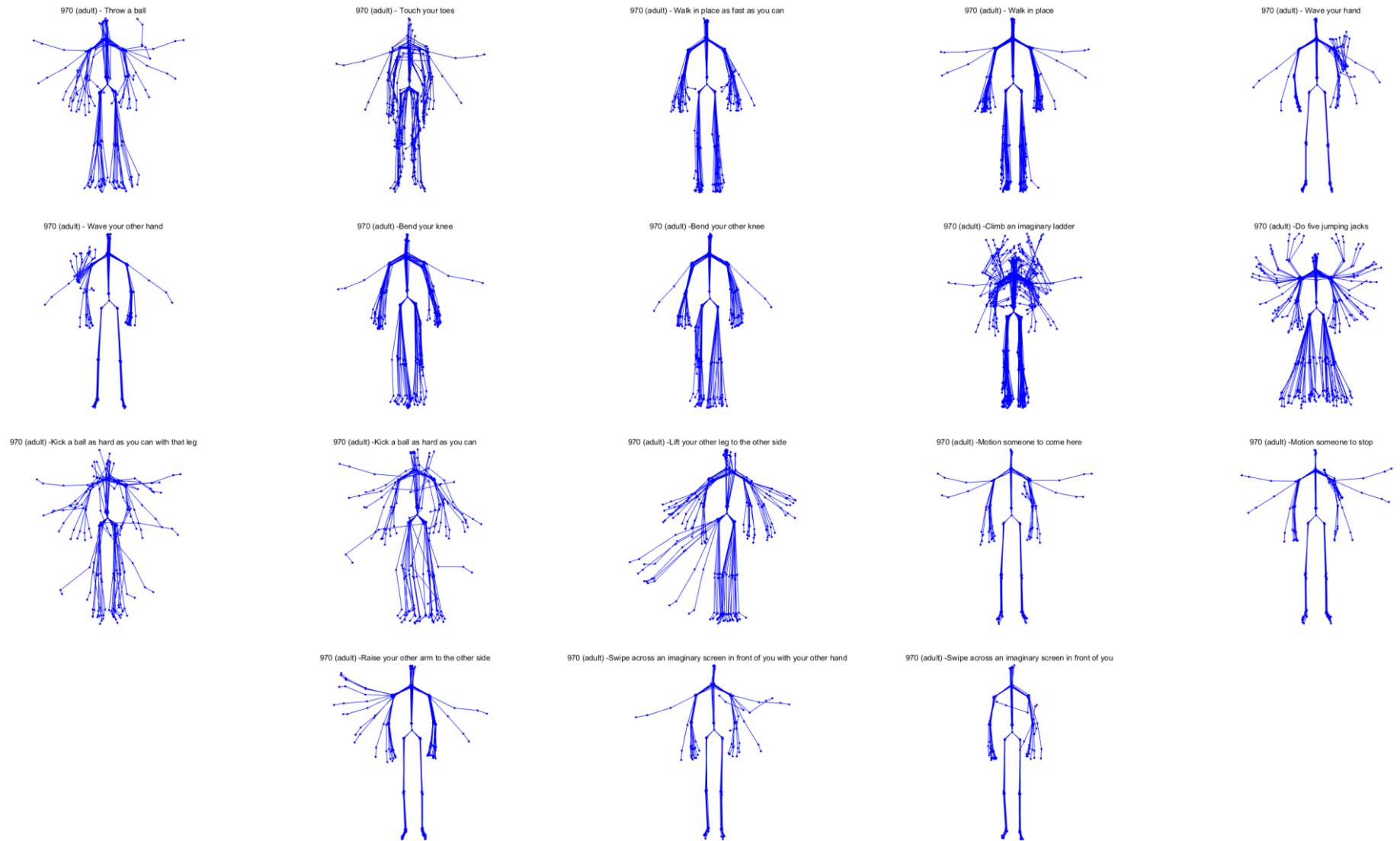
# Motion Visualizations, participant 970 (adult)



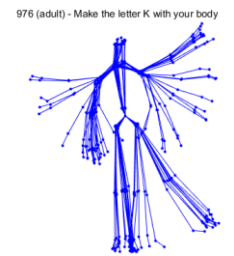
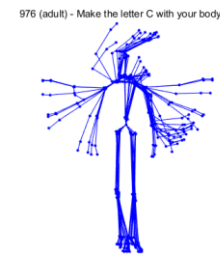
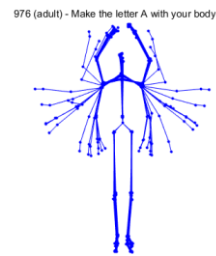
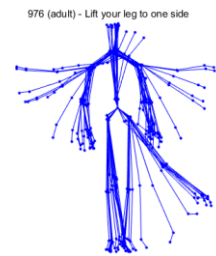
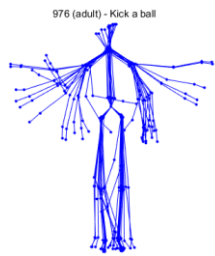
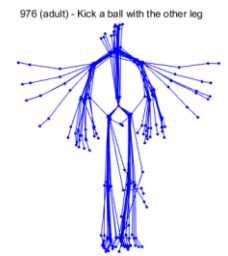
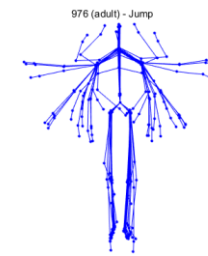
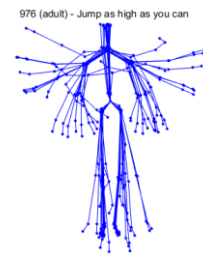
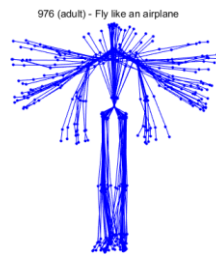
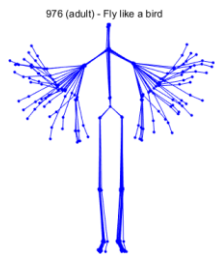
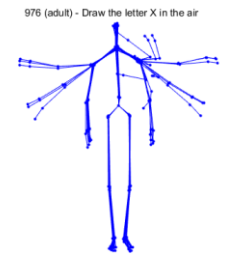
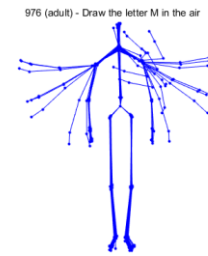
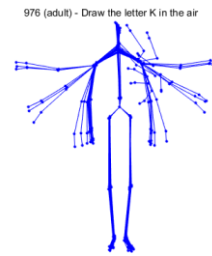
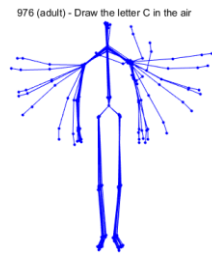
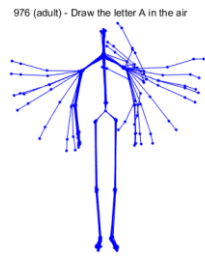
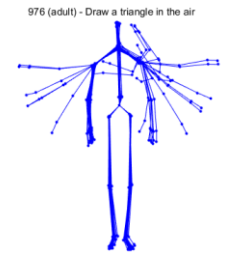
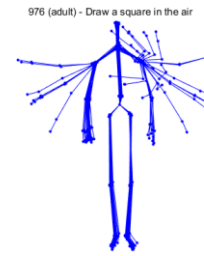
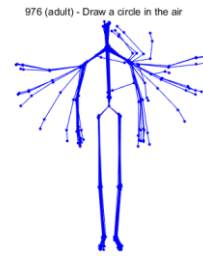
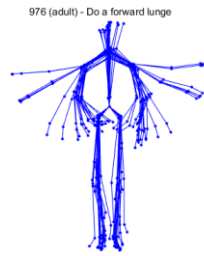
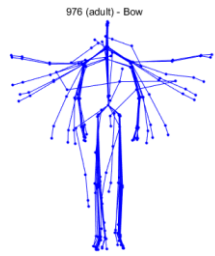
# Motion Visualizations, participant 970 (adult)



## Motion Visualizations, participant 970 (adult)

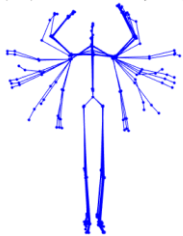


## Motion Visualizations, participant 976 (adult)

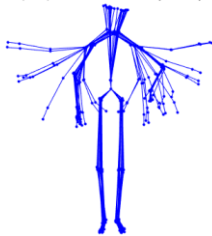


# Motion Visualizations, participant 976 (adult)

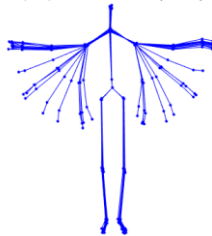
976 (adult) - Make the letter M with your body



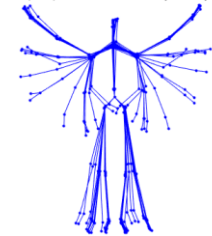
976 (adult) - Make the letter P with your body



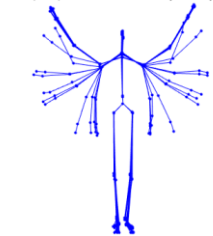
976 (adult) - Make the letter T with your body



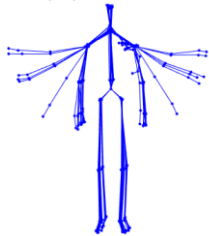
976 (adult) - Make the letter X with your body



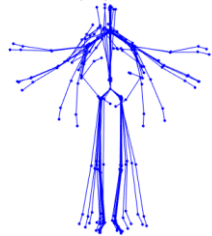
976 (adult) - Make the letter Y with your body



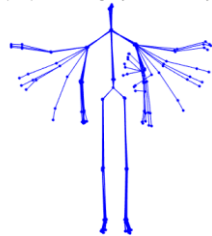
976 (adult) - Point at the camera



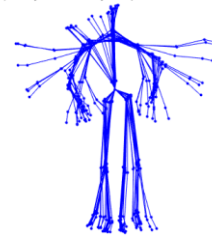
976 (adult) - Punch



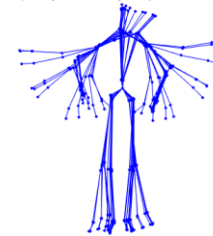
976 (adult) - Push an imaginary button in front of you



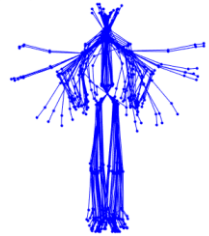
976 (adult) - Put your hands on your hips and lean to the other side



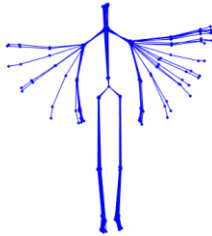
976 (adult) - Put your hands on your hips and lean to the side



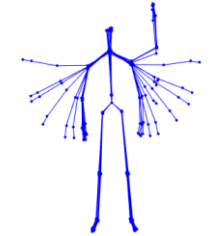
976 (adult) - Put your hands on your hips and twist back and forth



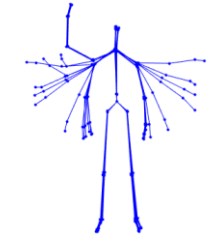
976 (adult) - Raise your arm to one side



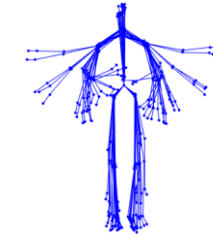
976 (adult) - Raise your hand



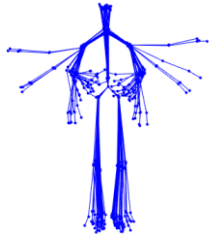
976 (adult) - Raise your other hand



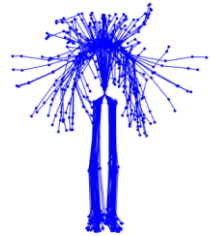
976 (adult) - Run in place as fast as you can



976 (adult) - Run in place



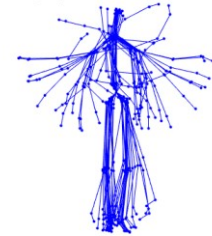
976 (adult) - Swim



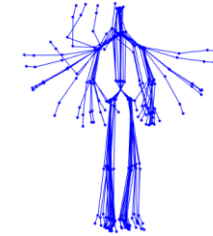
976 (adult) - Throw a ball as far as you can with the other arm



976 (adult) - Throw a ball as far as you can



976 (adult) - Throw a ball with your other arm



# Motion Visualizations, participant 976 (adult)

