

Answer Sheet A

Instructions

OMB Control No. 0693-0043

Expiration Date 12-31-2018

Compare the following 20 pairs of face images. Reduced-sized versions of the images are included here for reference. However, in making your comparisons, you should use the high-resolution versions sent from the PI. If you did not receive instructions for downloading the pairs from NIST's secure fileserver, you should contact the PI, either by email (jonathon.phillips@nist.gov) or by phone (301-975-5348).

For each image pair, rate the similarity on a 7-point scale. Then rate the easiness or difficulty on making the comparison on a 5-point scale.

Please do not consult or discuss this study with friends, family, or colleagues from your institution or other institutions.

If you have any questions, please do not hesitate to contact the PI either by email (jonathon.phillips@nist.gov) or by phone (301-975-5348). Email is preferred.

You may go back and edit any previously entered ratings until you hit "Submit." Once you click "Submit," your submission is finalized. Before you click "Submit," you may access this survey in multiple sessions during the course of the experiment via the link emailed to you. You may withdraw up until you finalize your submission.

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Answer Sheet A

Pair 01

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1. Based on your observations, how alike are the persons in Pair 01?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

2. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 02

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3. Based on your observations, how alike are the persons in Pair 02?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

4. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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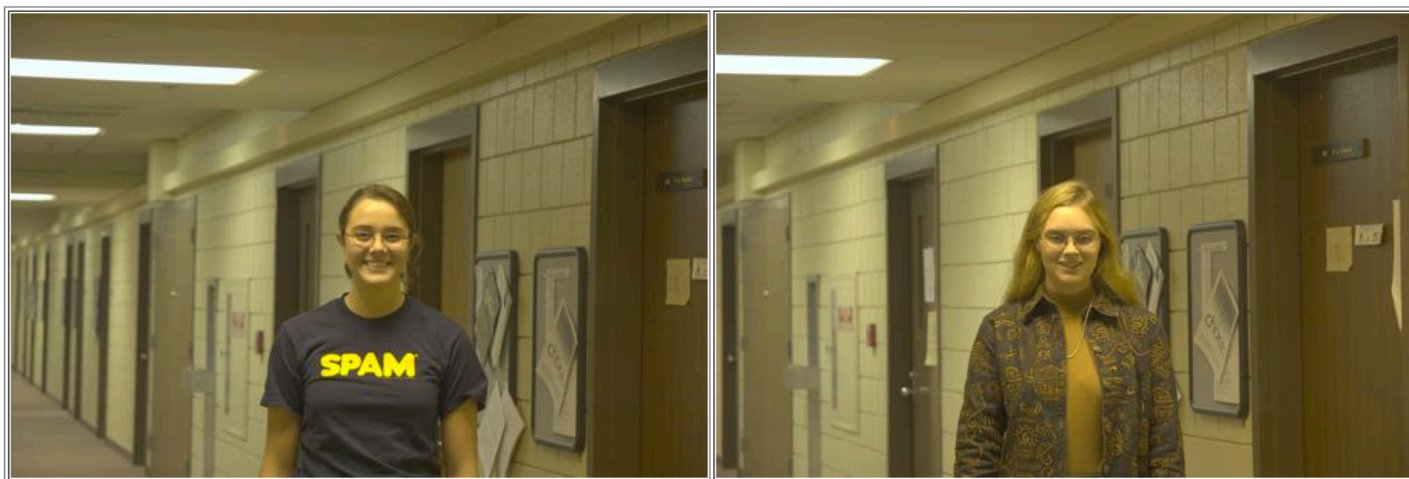
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Pair 03

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5. Based on your observations, how alike are the persons in Pair 03?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

6. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 04

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7. Based on your observations, how alike are the persons in Pair 04?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

8. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 05

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9. Based on your observations, how alike are the persons in Pair 05?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

10. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 06

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11. Based on your observations, how alike are the persons in Pair 06?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

12. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 07

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13. Based on your observations, how alike are the persons in Pair 07?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

14. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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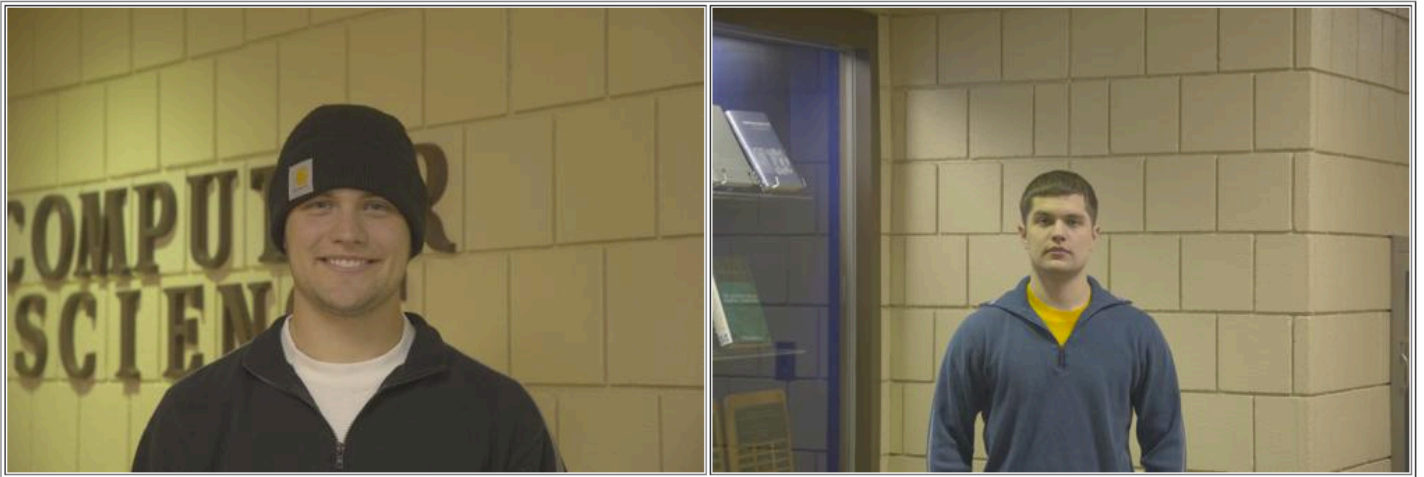
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Pair 08

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15. Based on your observations, how alike are the persons in Pair 08?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

16. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 09

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17. Based on your observations, how alike are the persons in Pair 09?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

18. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 10

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19. Based on your observations, how alike are the persons in Pair 10?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

20. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 11

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21. Based on your observations, how alike are the persons in Pair 11?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

22. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 12

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23. Based on your observations, how alike are the persons in Pair 12?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

24. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 13

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25. Based on your observations, how alike are the persons in Pair 13?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

26. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 14

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27. Based on your observations, how alike are the persons in Pair 14?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

28. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 15

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29. Based on your observations, how alike are the persons in Pair 15?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

30. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 16

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31. Based on your observations, how alike are the persons in Pair 16?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

32. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 17

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33. Based on your observations, how alike are the persons in Pair 17?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

34. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 18

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35. Based on your observations, how alike are the persons in Pair 18?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

36. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 19

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37. Based on your observations, how alike are the persons in Pair 19?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

38. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Pair 20

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39. Based on your observations, how alike are the persons in Pair 20?

- +3: The observations strongly support that it is the same person
- +2: The observations support that it is the same person
- +1: The observations support to some extent that it is the same person
- 0: The observations support neither that it is the same person nor that it is different persons
- 1: The observations support to some extent that it is not the same person
- 2: The observations support that it is not the same person
- 3: The observations strongly support that it is not the same person

40. How easy or difficult was it to make the comparison determination?

- 1 - Easy: The comparison was easier than most facial comparisons
- 2 - Moderate: The comparison was a typical facial comparison
- 3 - Difficult: The comparison was more difficult than most facial comparisons
- 4 - Very difficult: The comparison was unusually difficult, involving significant photometric, illumination, or pose changes, other red flags
- 5 - Not possible: The comparison was virtually impossible, due to a lack of detail in the image(s)

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Certification

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41. Please certify the following:

- I certify that I performed all comparisons by myself with no help or input from others.
- I certify that I did not distribute the pictures to any others.
- I certify that I had my employer's permission to use my employer's computers, email, laboratory tools, methods, or procedures.
- I certify that I did not use my employer's computers, email, laboratory tools, methods, or procedures.

42. Are your entries final? *

- Yes
- No

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Review of Results

OMB Control No. 0693-0043
Expiration Date: 12-31-2018
Review Your Results

1. Instructions

Compare the following 20 pairs of face images. Reduced-resolution versions of the images are included here for reference. However, in making your comparisons, you should use the high-resolution versions sent from the PI. If you did not receive instructions for downloading the pairs from MIT's secure fileserver, you should contact the PI, either by email (jonathon.phillips@mit.edu) or by phone (201-975-5345).

For each image pair, rate the similarity on a 7-point scale. Then rate the easiness or difficulty on making the comparison on a 5-point scale.

Please do not consult or discuss this study with friends, family, or colleagues from your institution or other institutions.

If you have any questions, please do not hesitate to contact the PI either by email (jonathon.phillips@mit.edu) or by phone (201-975-5345). Email is preferred.

You may go back and edit any previously entered ratings until you hit "Submit." Once you click "Submit," your submission is final. Before you click "Submit," you may access this survey in multiple sessions during the course of the experiment via the link emailed to you. You may withdraw up until you finalize your submission.

2. Pair 01



1. Based on your observations, how alike are the persons in Pair 01?
2. How easy or difficult was it to make the comparison determination?

3. Pair 02



3. Based on your observations, how alike are the persons in Pair 02?
4. How easy or difficult was it to make the comparison determination?

4. Pair 03



5. Based on your observations, how alike are the persons in Pair 03?
6. How easy or difficult was it to make the comparison determination?

5. Pair 04



7. Based on your observations, how alike are the persons in Pair 04?
8. How easy or difficult was it to make the comparison determination?

6. Pair 05



9. Based on your observations, how alike are the persons in Pair 05?
10. How easy or difficult was it to make the comparison determination?

7. Pair 06



11. Based on your observations, how alike are the persons in Pair 06?
12. How easy or difficult was it to make the comparison determination?

8. Pair 07



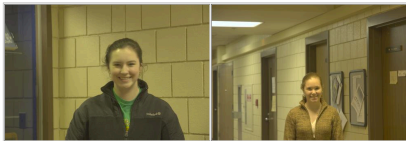
13. Based on your observations, how alike are the persons in Pair 07?
14. How easy or difficult was it to make the comparison determination?

9. Pair 08



15. Based on your observations, how alike are the persons in Pair 08?
16. How easy or difficult was it to make the comparison determination?

10. Pair 09



17. Based on your observations, how alike are the persons in Pair 09?
18. How easy or difficult was it to make the comparison determination?

11. Pair 10



19. Based on your observations, how alike are the persons in Pair 10?
20. How easy or difficult was it to make the comparison determination?

12. Pair 11



21. Based on your observations, how alike are the persons in Pair 11?
22. How easy or difficult was it to make the comparison determination?

13. Pair 12



23. Based on your observations, how alike are the persons in Pair 12?
24. How easy or difficult was it to make the comparison determination?

14. Pair 13



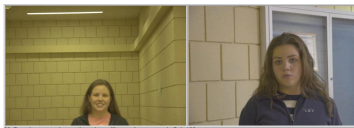
25. Based on your observations, how alike are the persons in Pair 13?
26. How easy or difficult was it to make the comparison determination?

15. Pair 14



27. Based on your observations, how alike are the persons in Pair 14?
28. How easy or difficult was it to make the comparison determination?

16. Pair 15



29. Based on your observations, how alike are the persons in Pair 15?
30. How easy or difficult was it to make the comparison determination?

17. Pair 16



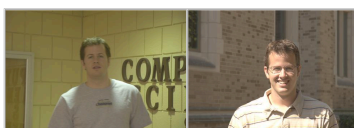
31. Based on your observations, how alike are the persons in Pair 16?
32. How easy or difficult was it to make the comparison determination?

18. Pair 17



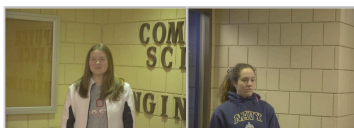
33. Based on your observations, how alike are the persons in Pair 17?
34. How easy or difficult was it to make the comparison determination?

19. Pair 18



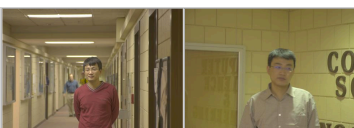
35. Based on your observations, how alike are the persons in Pair 18?
36. How easy or difficult was it to make the comparison determination?

20. Pair 19



37. Based on your observations, how alike are the persons in Pair 19?
38. How easy or difficult was it to make the comparison determination?

21. Pair 20



39. Based on your observations, how alike are the persons in Pair 20?
40. How easy or difficult was it to make the comparison determination?

22. Certification

41. Please certify the following:
42. Are you certain?

- Yes

Answer Sheet A

Thank You!

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Expiration Date 12-31-2018

Thank you for taking our survey.

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