
Summary FRGC ver1.0a Results

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Goals of ver1.0a

- Introduce participants to FRGC
- Provide sample of data
- FRGC challenge problem
- BEE
 - Architecture
 - Baseline Algorithms

Ver1.0a Timeline

- 5 May '05: ver1.0a released
- 10 Aug '05: Results due for 2nd Workshop
- 10 Sept '05: Summary of results

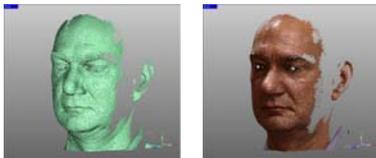
Example subject session



Controlled Still



Uncontrolled Still



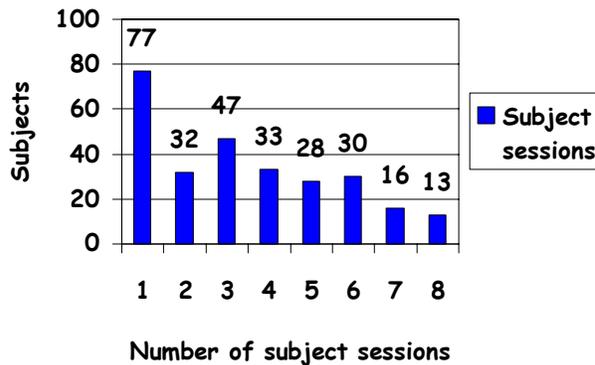
3D Image

Ver1.0a Core Experiments

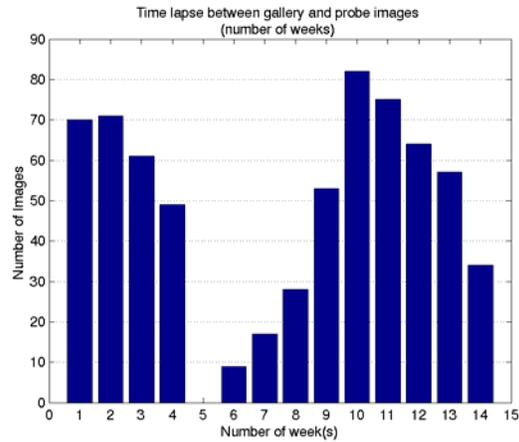
- Exp 1: Controlled indoor still versus indoor still
- Exp 2: Indoor multi-still versus indoor multi-still
- Exp 3: 3D versus 3D
- Exp 4: Controlled indoor still versus uncontrolled still
- Exp 5: 3D versus controlled single still
- Exp 6: 3D versus uncontrolled single still

Subject Sessions

275 Subjects, 943 Subject sessions, 7544 Recordings



Time Lapse

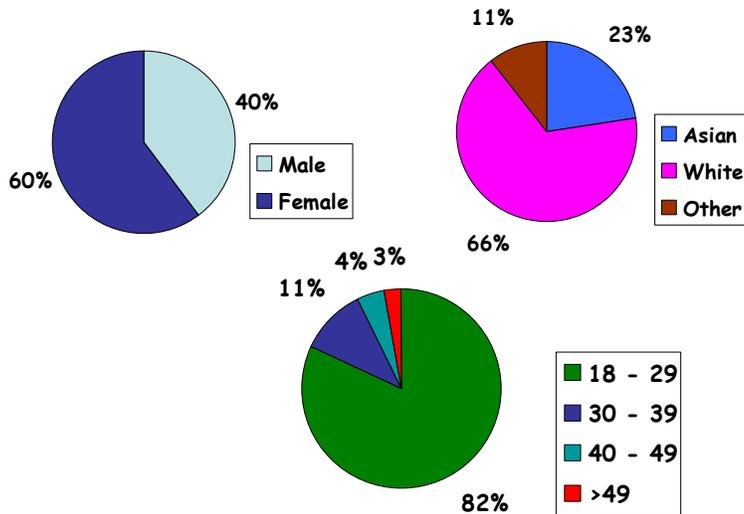


Size of Faces

Pixels between center of eyes

	Mean	Std Dev
Controlled	291	19
Uncontrolled	138	32
3D	93	25

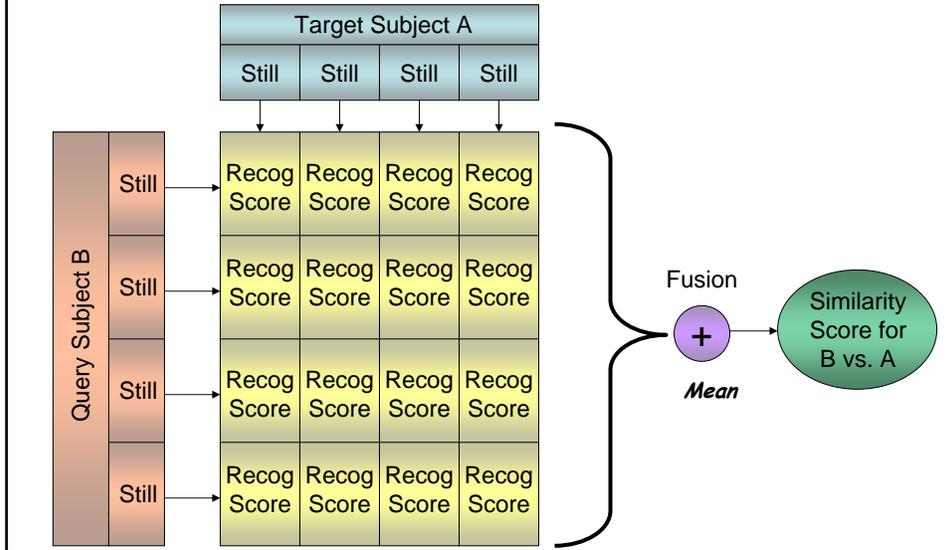
Demographics



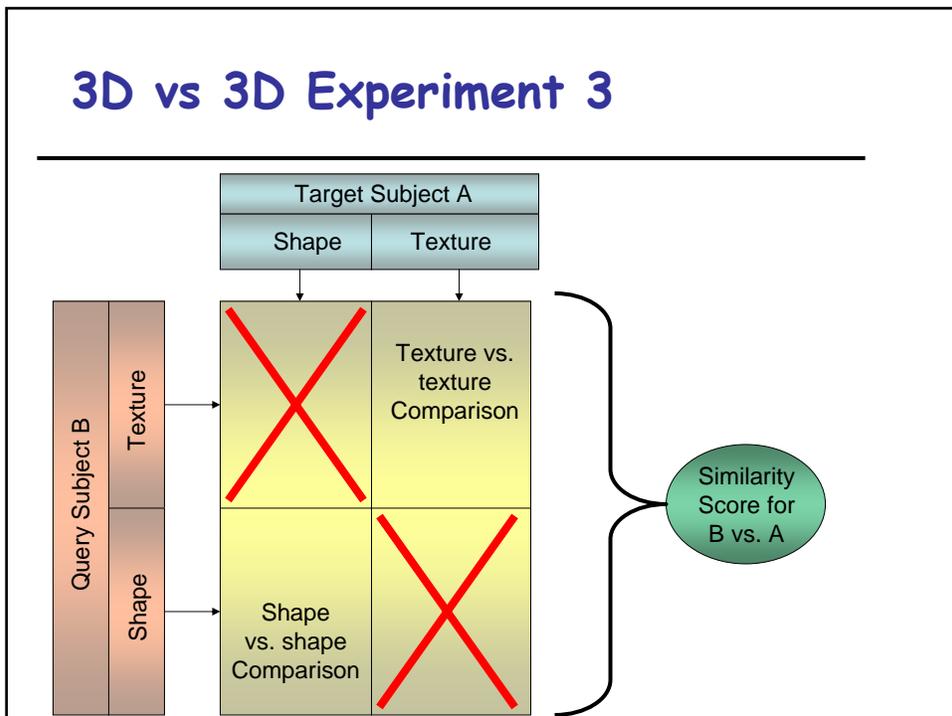
Experimental Sets

	Subjects	Sessions
Training set	123	183
Target set	275	943
Query set	275	943
Gallery	152	<i>SimMatrix</i> Gallery set size 152
Probe set	152	Probe set size 608

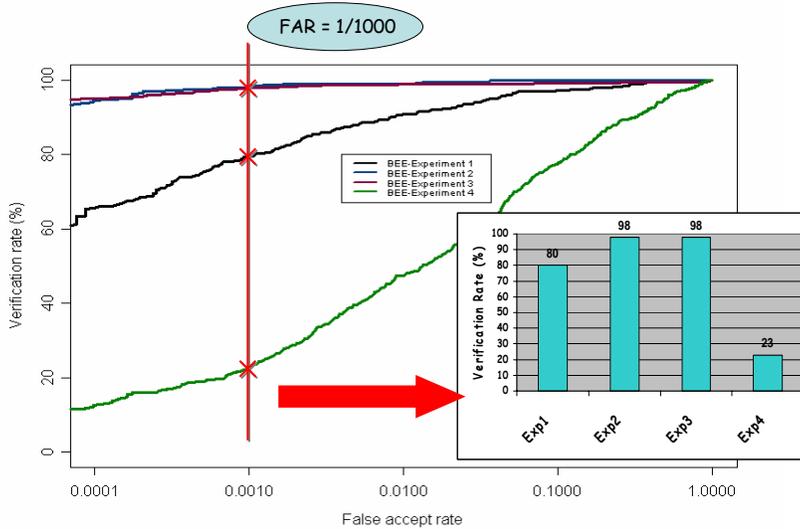
Multi-still Experiment 2



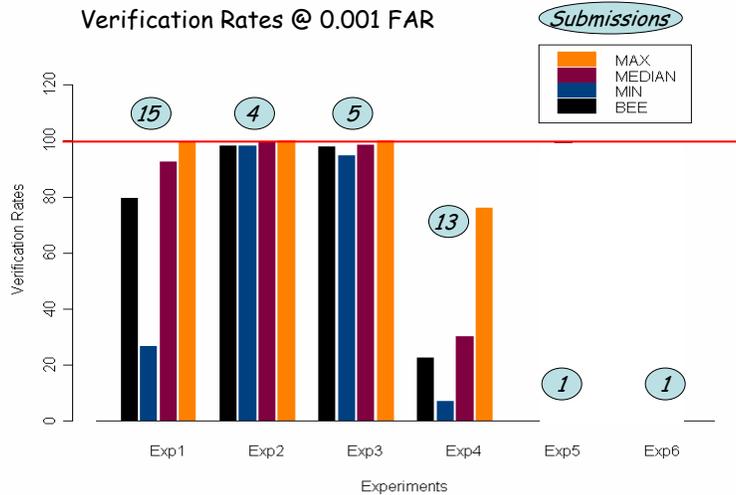
3D vs 3D Experiment 3



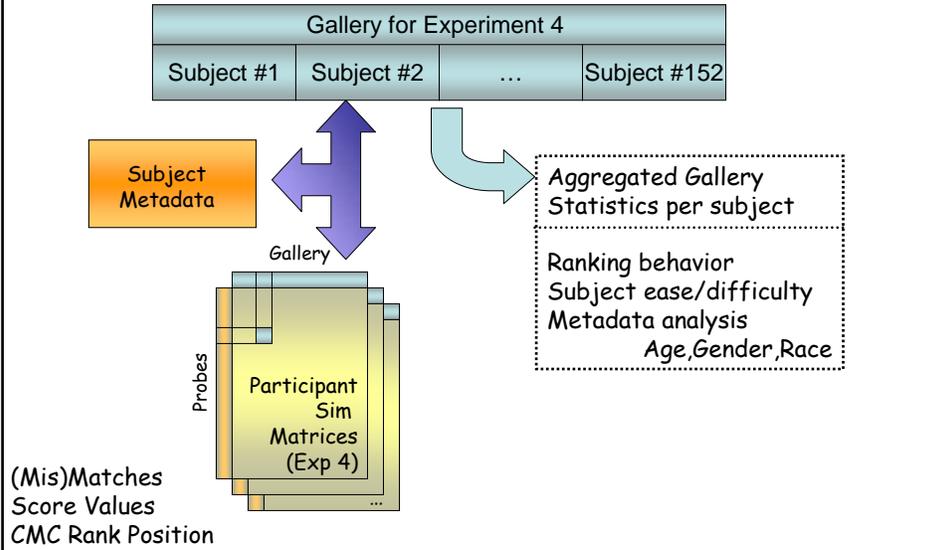
Baseline (PCA) Performance



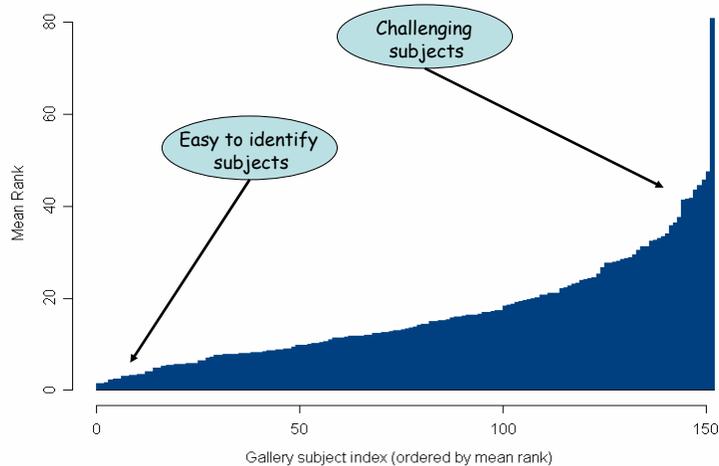
Experimental Results Summary



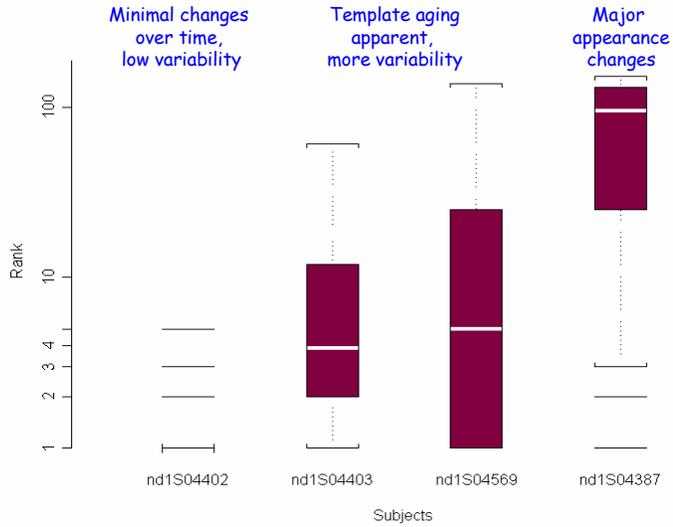
Analysis



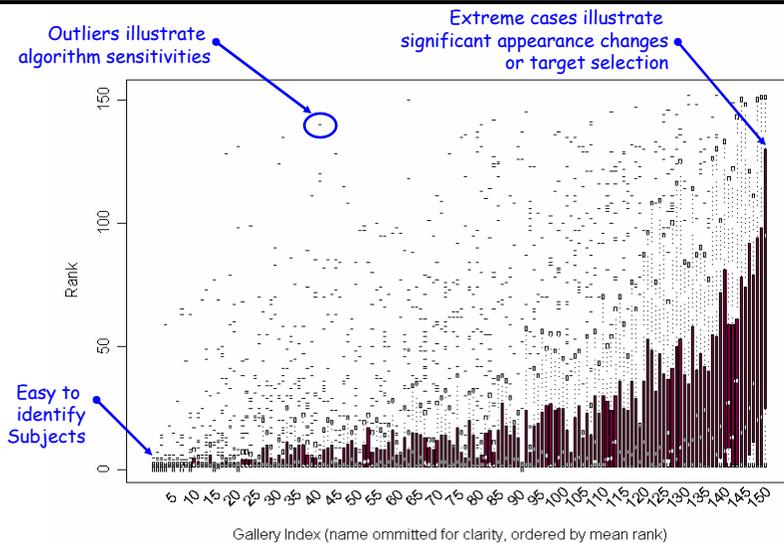
Mean rank for gallery subjects Exp4 - All Participants



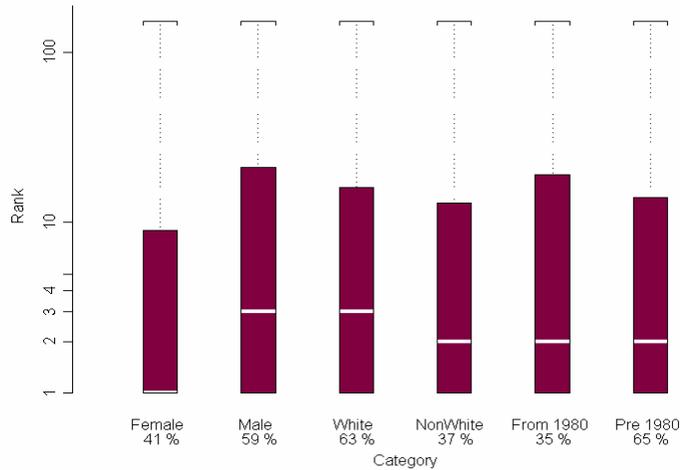
Gallery subject boxplots Exp4 - All Participants



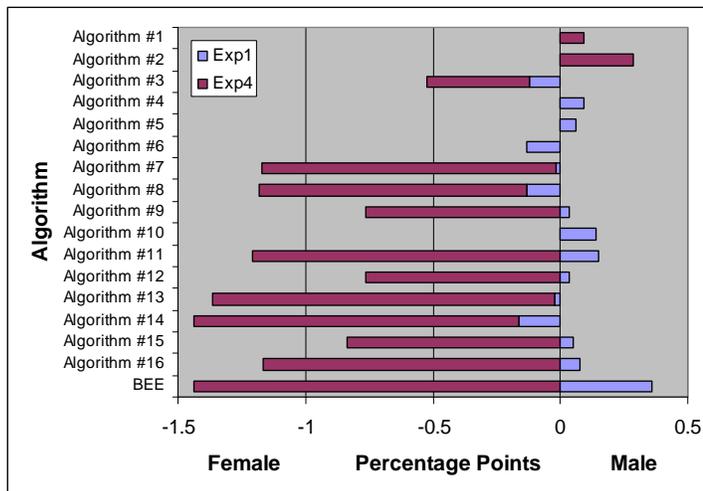
Gallery subject boxplots Exp4 - All Participants



Differences by metadata categories Exp4 - All Participants



Gender ID Differences Experiments 1 and 4



Conclusion

- Can distribute experiments
- Can receive and score similarity matrices
- Preliminary analysis not statistically significant
- Indicates future directions for analysis