



Vultology Parallels among Identical Twins: A Pilot Study

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KEYWORDS

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ABSTRACT

Preliminary research aims to uncover whether facial expressions and mannerisms (*vultology*) are more heavily determined by environmental upbringing or genetic factors. Facial analysis using the CTVC (*Cognitive Type Vultology Code 1.1*) was used on twenty pairs of identical twins; measuring similarities in voice tone, facial muscle contractions and body movements. This included five pairs of twins that were separated at birth for between 10-33 years, having no means through which to imitate one another's expressions. The study concluded that 100% of participants shared the same expressive profile and vultological type, offering strong support for the hypothesis that expressive profile is intimately tied to genetic factors.

1. Introduction

While much research has been conducted on the various similarities between identical and fraternal twins in order to determine the scope and influence of genetic factors, the question of whether our facial expressions and mannerisms are a byproduct of environmental influences or genetic variables has obtained relatively little attention. Through the use of the Cognitive Type Vultology Code (CTVC), an analysis was performed of twenty randomly selected pairs of identical twins in order to determine how similar the expressive profile of identical twins are to each other.

1.1 Using the Instrument

The CTVC instrument, under development by J.E. Sandoval and L. Renee Bayard, consists of 110 signals which catalog four main aspects of a person's expression: facial muscle contractions, voice intonation, body posture/movements and elements of speech. The instrument quantifies a person's expressions using eight main signal groupings (each consisting of ~10 signals). If the instrument identifies a predominance of one of these signal categories in a person's facial/body expressions, that individual is grouped together with others who also share the same predominance in their bodily expression. The 110 signals used to categorize the subjects are publicly available in the form of static images,

animated images, audio files and video media at www.cognitivetype.com/ctvc.

For this pilot study, the forty subjects were ascertained and categorized by the researchers through a preliminary examination of 10-15 minutes of footage per subject. The official study to follow will contain a second-by-second breakdown of the visible signals displayed by each subject during a specified timeframe, as well as a statistical analysis of those signals to determine the percentage of similarity between the pairs of twins. For this initial report, the primary category (of eight) and secondary category (of sixteen) were noted - grouping the forty samples into one of sixteen different visual profiles according to the Cognitive Type system.

2. Results

Figure 1 lists the names of the forty public twin samples selected, alongside the primary media footage used to determine their vultological type. Of the samples analyzed, all forty subjects displayed significant visual similarities to their identical pair, including the same type and subtype designation. This included ten subjects which were separated from their twins for periods between 10-33 years. Footage analyzed before and after their documented first meetings also demonstrated the same vultological profile. This suggests that vultological type is strongly influenced by

Figure 1

Name	Type	Media Source	Notes
Linda Jamison	TeSi-Fi	https://www.youtube.com/watch?v=qNdb2o4rHDM	
Terry Jamison	TeSi-Fi	https://www.youtube.com/watch?v=qNdb2o4rHDM	N/A
James Phelps	SiTe-Si	https://www.youtube.com/watch?v=y1PZNF6RJeo	
Oliver Phelps	SiTe-Si	https://www.youtube.com/watch?v=y1PZNF6RJeo	N/A
Camille Kitt	TeNi-Ni	https://www.youtube.com/watch?v=uSteLERqhEU	
Kennerly Kitt	TeNi-Ni	https://www.youtube.com/watch?v=uSteLERqhEU	N/A
Ronde Barber	FeSi-Ti	https://www.youtube.com/watch?time_continue=72&v=A1--NLMHuRI	
Tiki Barber	FeSi-Ti	https://www.youtube.com/watch?v=NsXe9FRaFTo	N/A
Paula Bernstein	TeNi-Te	https://www.youtube.com/watch?v=1gwzW4jOMI&t=35s	
Elyse Schein	TeNi-Te	https://www.youtube.com/watch?v=1gwzW4jOMI&t=35s	Separated 33 years
Allie Byers	NeTi-Fe	https://www.youtube.com/watch?v=7-Hv21Zc2Ww	
Gabby Byers	NeTi-Fe	https://www.youtube.com/watch?v=7-Hv21Zc2Ww	N/A
Audrey Doering	SeFi-Se	https://www.youtube.com/watch?v=jxNGgLQKRfQ	
Gracie Rainsberry	SeFi-Se	https://www.youtube.com/watch?v=jxNGgLQKRfQ	Separated 10 years
Isabelle Carlsen	SeFi-Se	https://www.youtube.com/watch?v=pCD-X1fdx1Y	
Abby Carlsen	SeFi-Se	https://www.youtube.com/watch?v=pCD-X1fdx1Y	N/A
Anais Bordier	TiSe-Se	https://www.youtube.com/watch?v=6zp6U5eAfEc&t=48s	
Samantha Futerman	TiSe-Se	https://www.youtube.com/watch?v=6zp6U5eAfEc&t=48s	Separated 25 years
Brittany Daniel	TeNi-Te	https://www.youtube.com/watch?time_continue=153&v=412jJ3tWJTw	
Cynthia Daniel	TeNi-Te	https://www.youtube.com/watch?time_continue=153&v=412jJ3tWJTw	N/A
Aaron Ashmore	FeSi-Fe	https://www.youtube.com/watch?v=IYaT706uSpQ	
Shawn Ashmore	FeSi-Fe	https://www.youtube.com/watch?v=WL2oaGUZ1Rk	N/A
Cole Sprouse	NiTe-Se	https://www.youtube.com/watch?v=DOW_INnm7Qk	
Dylan Sprouse	NiTe-Se	https://www.youtube.com/watch?v=qit9v7Twarl	N/A
Max Carver	FeSi-Fe	https://www.youtube.com/watch?v=TGFSGp8VNDg	
Charlie Carver	FeSi-Fe	https://www.youtube.com/watch?v=TGFSGp8VNDg	N/A
Brooklyn McKnight	NeFi-Ne	https://www.youtube.com/watch?v=rO61B1q0Xig	
Bailey McKnight	NeFi-Ne	https://www.youtube.com/watch?v=rO61B1q0Xig	N/A
Anna DeCinque	SeFi-Se	https://www.youtube.com/watch?v=Bnb5C8Xos0A	
Lucy DeCinque	SeFi-Se	https://www.youtube.com/watch?v=Bnb5C8Xos0A	N/A
Brigette Powers	NiTe-Fi	https://www.youtube.com/watch?v=2CCHq27ZgyE	
Paula Powers	NiTe-Fi	https://www.youtube.com/watch?v=2CCHq27ZgyE	N/A
Sarah Heath	SeFi-Se	https://www.youtube.com/watch?v=qMQXAvnwQxA&t=5m10s	
Celena Kopinski	SeFi-Se	https://www.youtube.com/watch?v=qMQXAvnwQxA&t=5m10s	Separated 25 years
Luke Harwerth	SeFi-Te	https://www.youtube.com/watch?v=NnHX95wsB0o	
Paul Harwerth	SeFi-Te	https://www.youtube.com/watch?v=NnHX95wsB0o	N/A
Amanda Dunford	FiSe-Fi	https://www.youtube.com/watch?v=4uWmDvs_FQA&t=4m55s	
Katey Bennett	FiSe-Fi	https://www.youtube.com/watch?v=4uWmDvs_FQA&t=4m55s	Separated 33 years
Chad Tomasso	NeFi-Te	https://www.youtube.com/watch?v=p-d2KnCD1d8	
Scott Tomasso	NeFi-Te	https://www.youtube.com/watch?v=p-d2KnCD1d8	N/A

genetic factors, and less determined by a behavioral learning process or environmental exposures.

In the formal study to follow, a larger sample size, including fraternal twins, will be used to help give a stronger determination of the degree of influence genetic factors hold over visual expression.