

Fingers And Toes: A Hidden BioMetric Story

Author & Presenter: Rachel M. Stange

Affiliation: Lord Fairfax Community College, Middletown, VA, USA

Email Address: rms25145@email.vccs.edu



Presenter Resume



At just 15, Rachel Stange was presenting at her first international education technology conference on using an LMS for K-12 outreach. She has presented at ACM and IEEE conferences on multidiscipline topics and at the Community College Cyber Summit. In 2019, she presented her tongue biometric research at the IEEE International Symposium on Technologies for Homeland Security. She started publishing her research while still in high school. She holds a Pre-Allied Health certificate and Associates of Science degree from Lord Fairfax Community College and is currently working on her Bachelors Degree from Bethany College in Professional Chemistry with a double minor in Computer Science and Cybersecurity.

Fingerprints

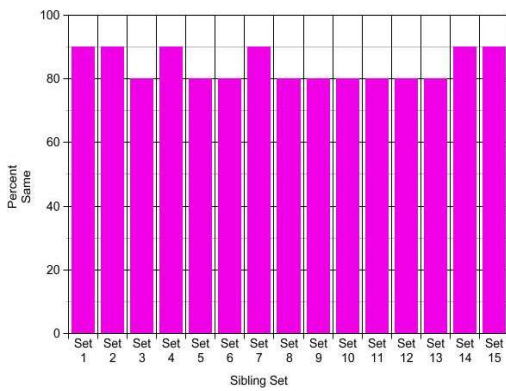


Figure 1. Overall Similarity of Fully Related Siblings Fingerprints

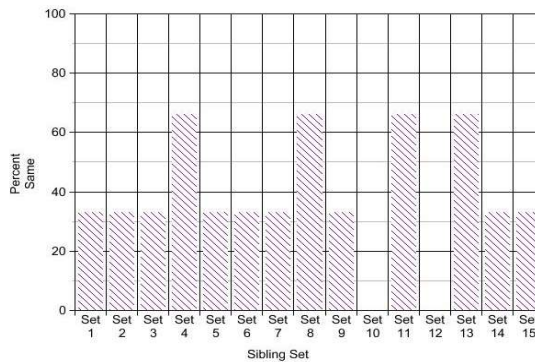


Figure 2. Major Classification Similarity of Fully Related Siblings Fingerprints

Toeprints

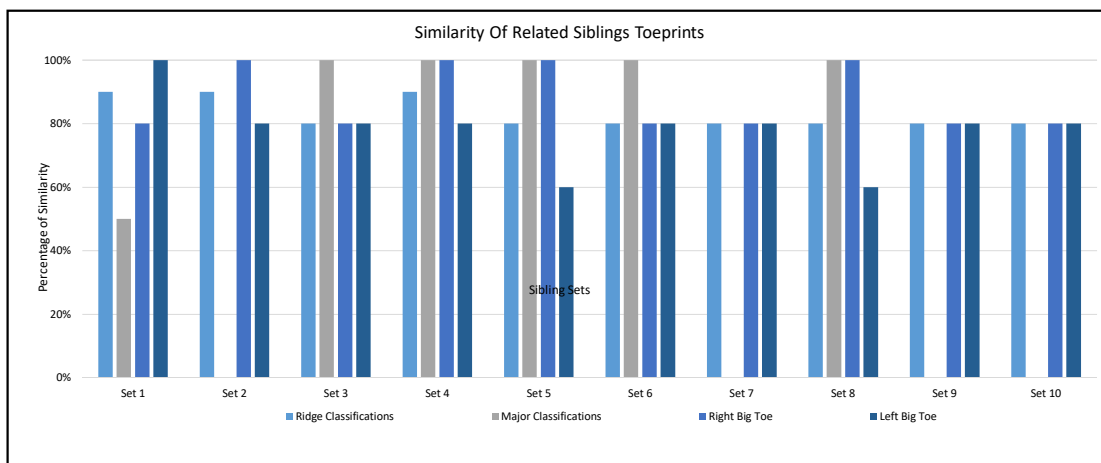


Figure 3. Similarity of Related Siblings Toeprints of Different Ages and Ethnic Backgrounds

Conclusion

