Captivating the Jury



Hillary Daluz

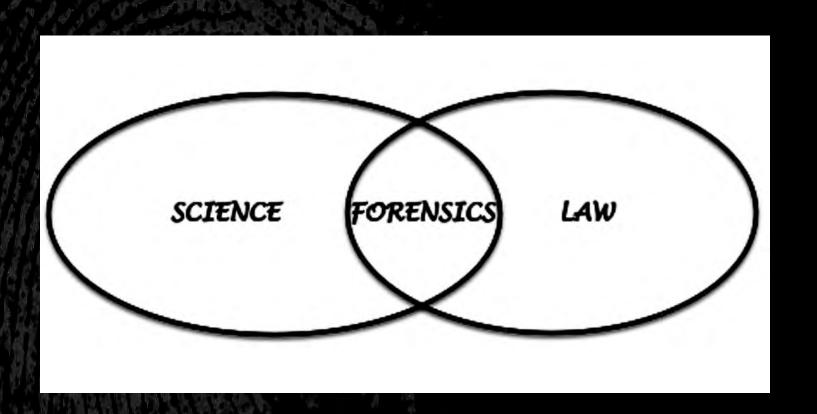
Instructor, Tri-Tech Forensics
Forensic Specialist, Forensic Identification Services
Author, CRC Press

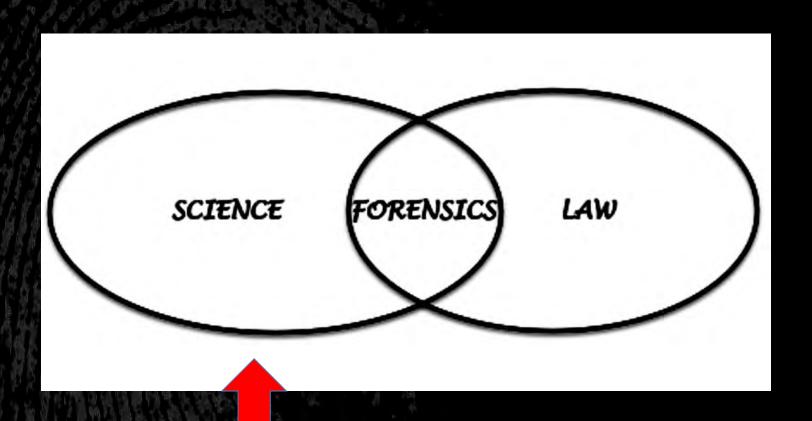
Overview

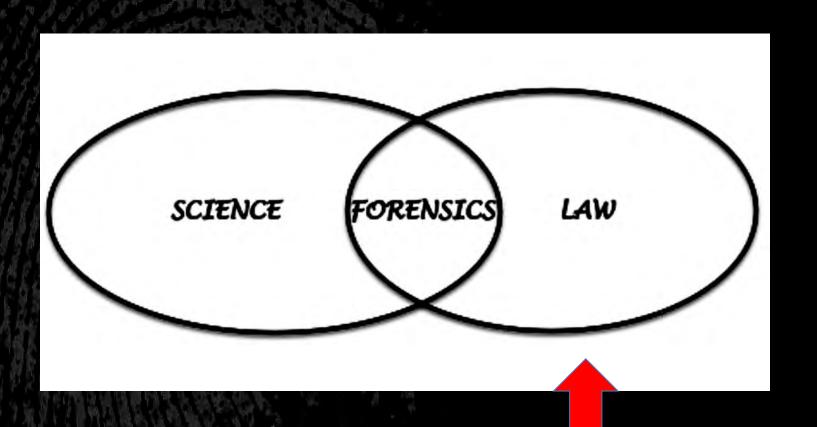
- The scientist
- Testifying as teaching
- How people (jurors) learn
- Visual aids
- Examples and anecdotes
- Explaining scientific concepts to the layperson

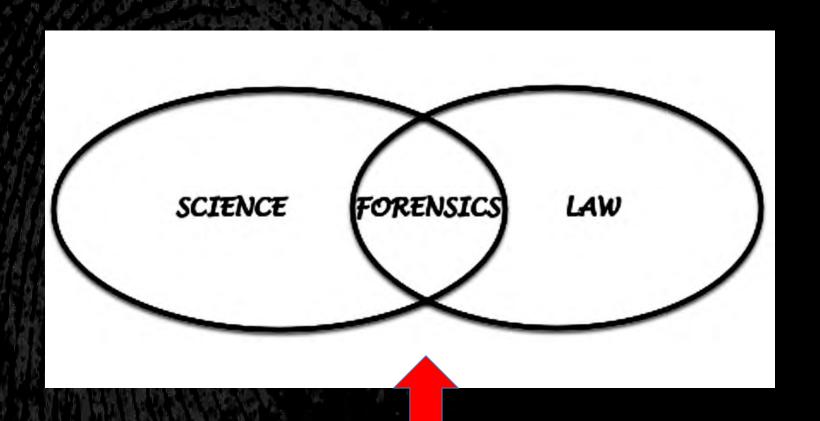
- Trained in scientific methodology
 - Analytical skills
 - Research
 - Specialization











- "We call expert witnesses to testify about matters that are beyond the ordinary understanding of lay people... and then we ask lay judges and jurors to judge their testimony."
 - Professor Samuel Gross, University of Michigan Law

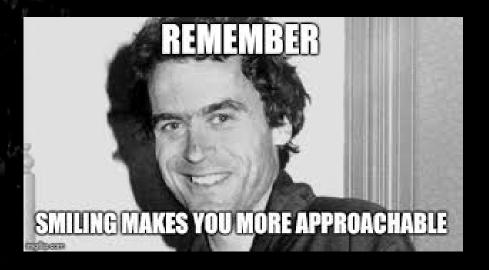
Testifying as Teaching

What are the qualities of an effective teacher?

Knowledgeable



- Knowledgeable
- Relatable/approachable



- Knowledgeable
- Relatable/approachable
- Enthusiastic/passionate

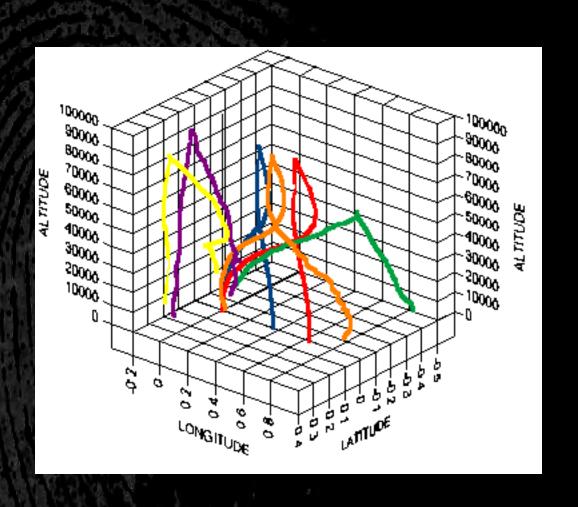


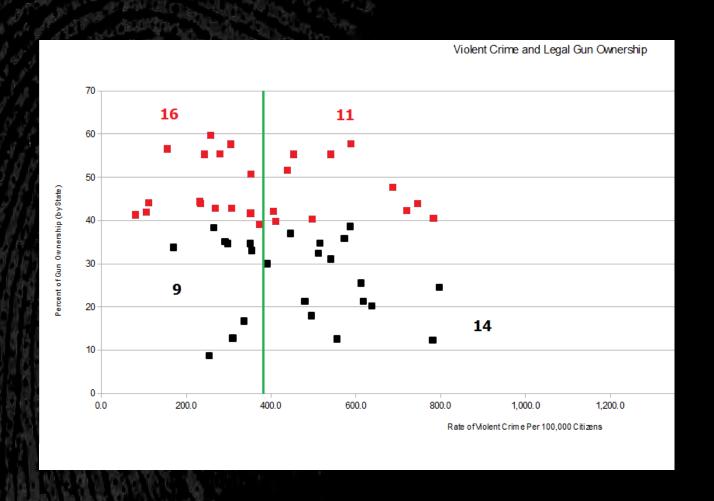
- Knowledgeable
- Relatable/approachable
- Enthusiastic/passionate
- Uses visual aids, anecdotes and examples

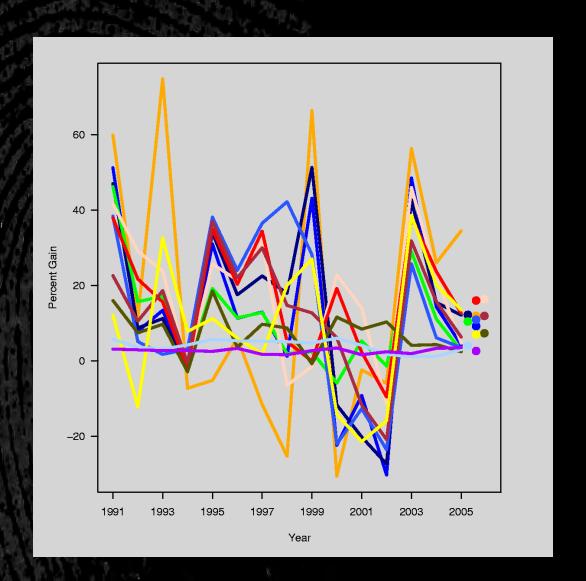
Learning Styles

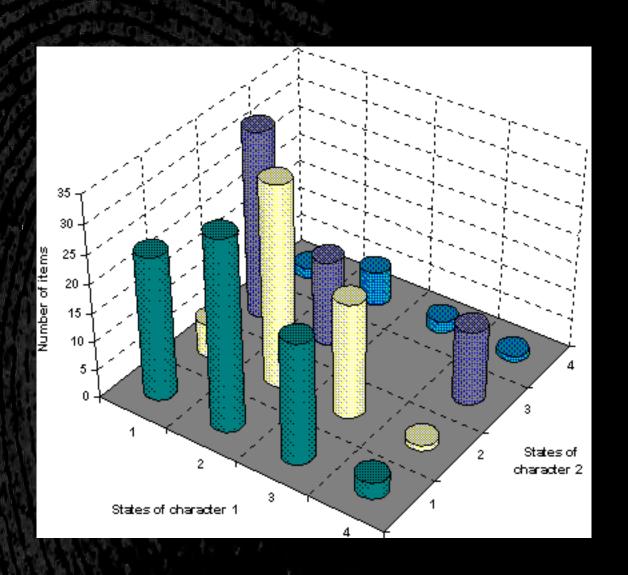


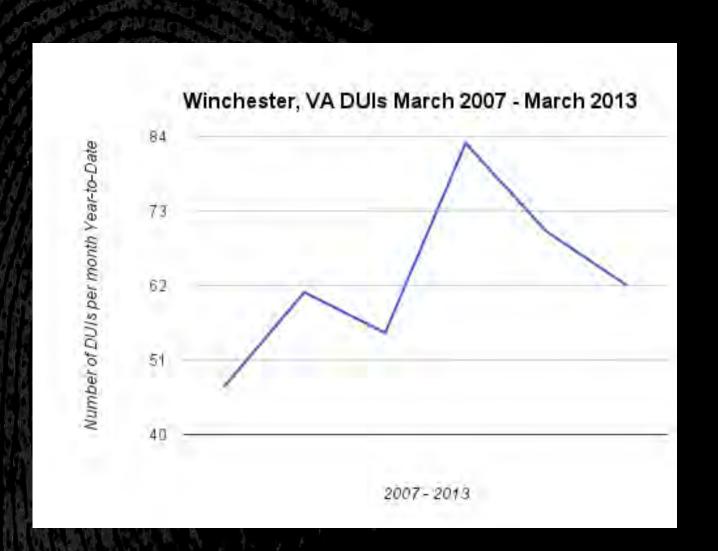
- Types
 - Photos
 - Charts, tables and graphs
 - PowerPoint Presentations
 - Show & tell demos
 - Drawings
 - Models
 - CAD programs

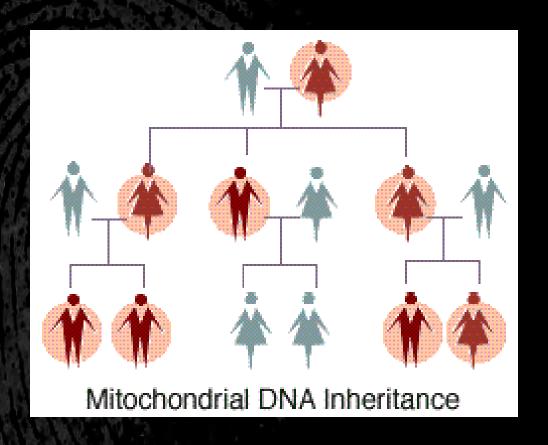


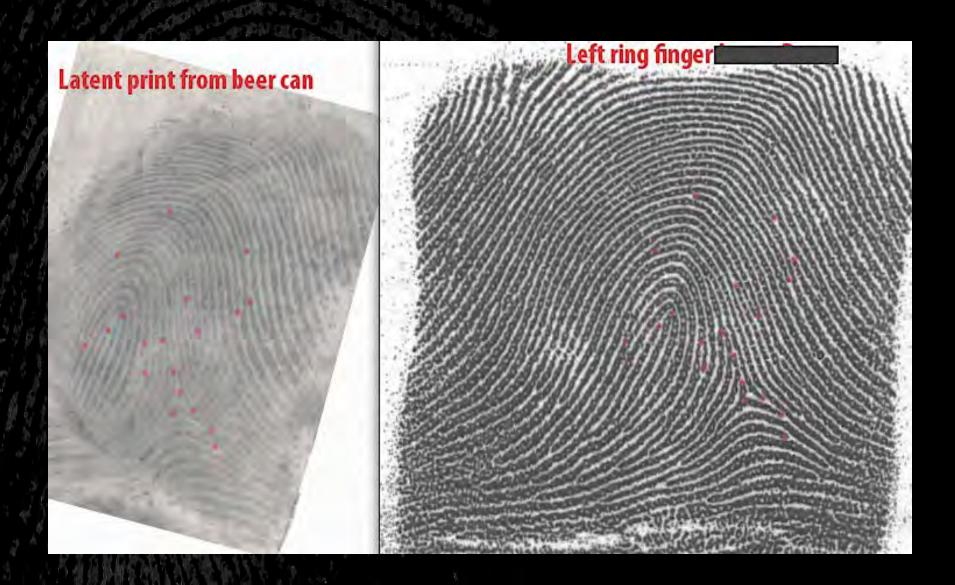


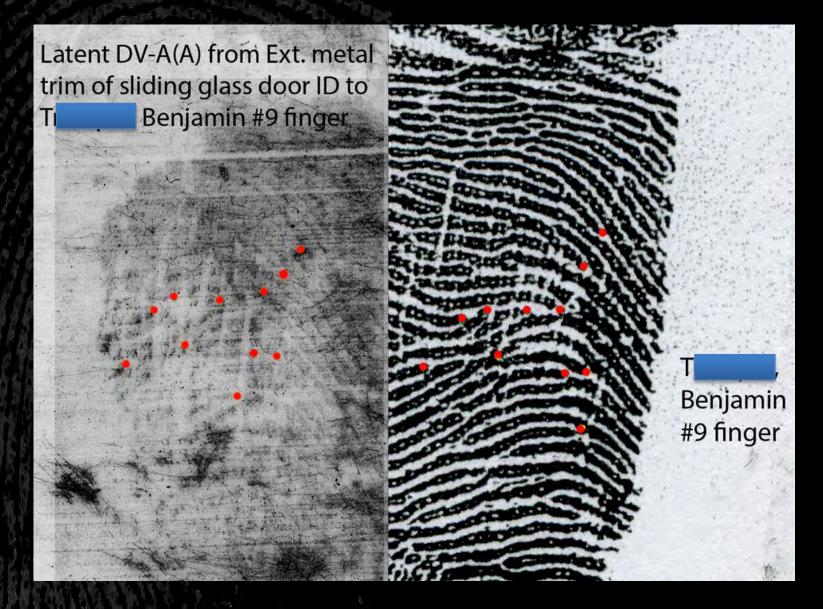
















- Guidelines
 - Clear and simple (less is more)
 - Descriptive
 - Enhance verbal explanation
 - Pictorial representations of complex data

Examples & Anecdotes

References to things or experiences that are familiar



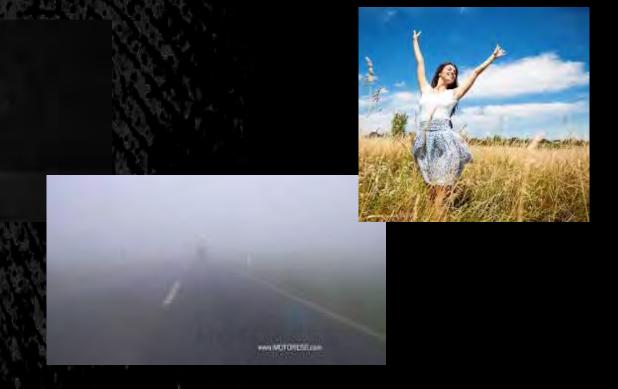


Qualitative/quantitative information in a latent print
 Painting a house





• How many points? How close do you have to be to recognize someone familiar to you?



Superglue vaporization Boiling teakettle



 Superglue polymerization accumulating on a stair rail



Snow



Levels of detail luggage



Recognizing your





- Avoid/explain terminology
 - Sufficiency
 - Cyanoacrylate ester
 - Macro photography

Jargon, jargon, jargon!



- Explain acronyms
 - SNP
 - FLS/ALS
 - PCR
 - GCMS
 - RUVIS



- 1. Pick a scientific technique/concept that applies to your job duties and responsibilities
- 2. Write out an outline or narrative explanation as if to a layperson
- 3. Practice your explanation out loud to a colleague
- 4. Have the colleague give constructive feedback
- 5. Revise your explanation
- 6. Practice your explanation out loud to a layperson

Night photography

Macro photography

Contamination

RUVIS

LASER

Magnetic fingerprint powder

Cyanoacrylate fuming

Ninhydrin/DFO/Indanedione

Developing fingerprints in

blood

Amido black

Chemiluminescence

Physical developer

Latent print

Powder processing

Fluorescence

Areas of the palm

(hypothenar, thenar,

interdigital areas)

AFIS

LiveScan

ACE-V

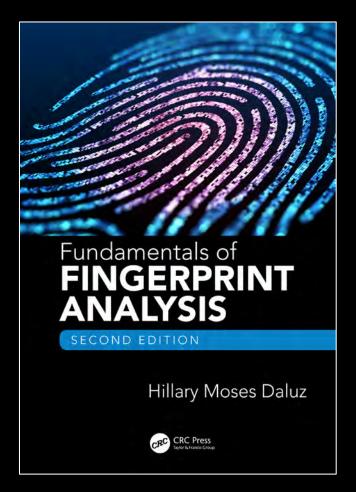
Oblique lighting

Fluorescence

Latent print

ALS

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Fundamentals of Fingerprint Analysis, Second Edition

Fingerprint Analysis Laboratory Workbook,
Second Edition
CRC Press, 2018