

# FORENSIG SCIENCE



Basic principles of forensic science for an introductory overview course.

#### OVERVIEW

#### Key Concepts of Forensic Science

- Application of a scientific method, tool, or technique. to aid an investigation or judicial proceeding
- Used to support or refute hypotheses about how an event occurred.
- Results integrated into the investigation, part of a Langer Morey
- Many subdisciptions





#### Characteristics of Forensic Data and Results

- Specific and complete, including caveats or limitations.
- Reproducible; another forensic scientist provided with the same evidence and information should obtain the same results.
- Fabrifiable: cesults must be stated such that they can be tested for accuracy and completeness. A specific DNA profile or a specific blood alcohol measurement is falsifiable because the results can be confirmed by scientific testing.
- Relevant to the case at hand. The analysis of a bloodstain sample would be done to obtain the DNA profile; cholesterol level in the blood is irrelevant

#### Selected Historical Figures

#### Alphonse Bertillon (1853–1914; French)

- Used measurements of physical features. for identification called anthropometry or Bertillonage, Replaced by fingerprinting
- · Francis Galton (1822-1911; English)
- Fingerprints.
- Alexander Gettler (1883–1968; American)
- Forensic toxicology, Performed chemical analysis for the New York Office of Chief Medical Examiner (OCME)
- Calvin Goddard (1891–1955; American)
- Comparison microscopy and firearms
- Hams Gross (1847–1915; Austrian) - Coined the term criminalistics.

- Alec Jeffreys (1950-; English).
  - Developed early DNA testing methods
  - First to use DNA typing in a criminal matter (Collin Pitchfork, case):
- Paul Kirk (1902–1970; American)
- Generalist and educator
- Edmond Locard (1877-1966; French)
- Trace evidence, Opened an early forensic Safetora torre
- Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norrés (1867–1935; American)
- Physician, Early head of the OCME
- Mathico Orfila (1787–1853; Spanish)
- Worked in Italy and France, Forensic
- toxicologist and educator. Utilized the Marsh test for arsenic in the
- LaFarge case. Bernard Spilsbury (1877-1947; English)
- Physician and forensic pathologist

#### Blas and Human Error

- Bias can cause results of a forensic analysis to be influenced by factors other than evidence and tenting results.
- Usually unintended and unconscious
- Can be caused by contextual information irrelevant
- Confirmation bias can occur if a specific result is anticipated or espected
- Prosecutorial bias/defense bias favors a specific side in the dispute

#### Interface with the US Legal System

#### **US legal system**

- Legal system designed to settle disputes.
- Adversarial: based on comparing competing A PROPERTY OF THE REAL PROPERTY.
- Criminal cases
  - Accused/defendant vs. government (local/state/ flexiberrall)
  - Prosecution vs. defense
- Burden of proof on prosecution
- Standard of proof: beyond a reasonable doubt Civil cases
  - Individual vs. individual, corporations, companies, etc.
- Plaintiff vs. defense

#### Relies on precedent-rulings by previous courts

Burden of proof on prosecution

 Jurisdiction: the entity empowered to bear a case local (town, city, county), state, and federal

Standard of proof: preponderance of evidence

Decision rendered by trier-of-fact (judge or jury)

#### US Rules of Evidence

- Process to allow evidence to be presented in a legal. proceeding
- Evidence is admissible if it meets admissibility standards.
- Applies to forensic pesults and data
- Admissibility standards vary across jurisdictions.
- Figure standard
- Informally called general acceptance indeposits tribities standard
- 1923 muliner
- Decision to reject admission of polygraph (lie-
- Court ruled that to admit new type of test, it must have been accepted within that scientific discipline.
- Federal Rules of Evidence.
  - Congressionally enacted 1975
  - Frequently updated
  - Applies to federal jurisdictions.
- Adopted by other jurisdictions.
- Guidelines for expert testimony
- Daubert standard
  - Informativ called gatekeeper standard
  - 1993 ruling in civil case
  - Trial judge to make admissibility decision:

  - judge as gatekeeper Ruling provided guidelines for making this decision
  - Included general acceptance, validation of method, standards, limitations, and potential entropy of the
- Part of Daubert trilogy of cases.
- "flodner diecission»
- Second of Daubert trillogy
- 1997 ruling in civil case.
- Scientific evidence must be directly relevant
- Kimmho docision.
- Third case of Daubert trilogy
- 1999 culing in civil case
- Extended definition of expert beyond traditional action ones.

#### Quality assurance/quality control (QA/QC)

Practices and procedures used to ensure that forensic data are relevant and transverthy

- Cradle to grave process—from evidence creation to final disposition
- Forensic laboratories can be accredited
- Analysts may be certified in some disciplines
- Methods executed by standard operating procedure.
- Traceability: ability to trace result directly to nationally internationally accepted standard Control samples analyzed with evidence
- Results reviewed by colleagues (peer review)
- Data reviewed and confirmed

#### Laboratory accreditation



- Implement corrective action

- Identify issues

- Prevent future accurrences





Testimony

Sampling

Analyst certification

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**Bruce Nikkel** 

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Forensic Science Analysis and Interpretation of Fire Scene Evidence Jose R. Almirall, Kenneth G. Furton, 2004-02-11 Ongoing advances in arson detection tools and techniques increase the importance of scientific evidence in related court proceedings In order to assemble an airtight case investigators and forensic scientists need a resource that assists them in properly conducting the chemical analysis and interpretation of physical evidence found at scenes of s Forensics Bruce Nikkel, 2021-12-21 A resource to help forensic investigators locate analyze and understand digital evidence found on modern Linux systems after a crime security incident or cyber attack Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused abused or the target of malicious attacks It helps forensic investigators locate and analyze digital evidence found on Linux desktops servers and IoT devices Throughout the book you learn how to identify digital artifacts which may be of interest to an investigation draw logical conclusions and reconstruct past activity from incidents You ll learn how Linux works from a digital forensics and investigation perspective and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used Learn how to Extract evidence from storage devices and analyze partition tables volume managers popular Linux filesystems Ext4 Btrfs and Xfs and encryption Investigate evidence from Linux logs including traditional syslog the systemd journal kernel and audit logs and logs from daemons and applications Reconstruct the Linux startup process from boot loaders UEFI and Grub and kernel initialization to systemd unit files and targets leading up to a graphical login Perform analysis of power temperature and the physical environment of a Linux machine and find evidence of sleep hibernation shutdowns reboots and crashes Examine installed software including distro installers package formats and package management systems from Debian Fedora SUSE Arch and other distros Perform analysis of time and Locale settings internationalization including language and keyboard settings and geolocation on a Linux system Reconstruct user login sessions shell X11 and Wayland desktops Gnome KDE and others and analyze keyrings wallets trash cans clipboards thumbnails recent files and other desktop artifacts Analyze network configuration including interfaces addresses network managers DNS wireless artifacts Wi Fi Bluetooth WWAN VPNs including WireGuard firewalls and proxy settings Identify traces of attached peripheral devices PCI USB Thunderbolt Bluetooth including external storage cameras and mobiles and reconstruct printing and scanning activity Resources in education ,1986-10 Neale's Disorders of the Foot and Ankle E-Book J. Gordon Burrow, Keith Rome, Nat Padhiar, 2020-06-22 Now in its 9th edition and fully updated to reflect 21st century podiatric practice Neale's Disorders of the Foot and Ankle continues to be essential reading for students entering the profession qualified podiatrists and other health care professionals interested in the foot Written by a renowned team of expert editors and international contributors it gives up to date evidence based content of the highest quality Podiatric students should find everything they need within its covers to pass their exams whilst qualified clinicians will find it a useful reference during their daily practice All the common conditions encountered in day to day

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- 1. Understanding the eBook Forensic Science Workbook Style Study Guide
  - The Rise of Digital Reading Forensic Science Workbook Style Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Forensic Science Workbook Style Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Forensic Science Workbook Style Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Forensic Science Workbook Style Study Guide
  - Personalized Recommendations
  - Forensic Science Workbook Style Study Guide User Reviews and Ratings
  - Forensic Science Workbook Style Study Guide and Bestseller Lists
- 5. Accessing Forensic Science Workbook Style Study Guide Free and Paid eBooks

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  - Forensic Science Workbook Style Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Forensic Science Workbook Style Study Guide
  - Highlighting and Note-Taking Forensic Science Workbook Style Study Guide
  - Interactive Elements Forensic Science Workbook Style Study Guide
- 8. Staying Engaged with Forensic Science Workbook Style Study Guide
  - $\circ$  Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Forensic Science Workbook Style Study Guide
- 9. Balancing eBooks and Physical Books Forensic Science Workbook Style Study Guide
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Forensic Science Workbook Style Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Forensic Science Workbook Style Study Guide
  - Setting Reading Goals Forensic Science Workbook Style Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Forensic Science Workbook Style Study Guide
  - Fact-Checking eBook Content of Forensic Science Workbook Style Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
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