




CURRICULUM VITAE

Name:  Cmdr (R) Ty “Yoda” Cunningham, MS, CMST [GT6M]
Supervisory Criminal Investigator-Deputy U.S. Marshal/Tactical
Commander #0481 (Ret.), Department of Justice-U.S. Marshals Service;
Indigenous Saami

Company: LOST TRAIL RANCH (LTR) LLC

Mobile: (907) 957-3115

Email: ty@losttrailranchhq.com

Titles: Protective Intelligence Investigator, Criminal Investigator,
Forensic Spoorologist, Behavioral Criminologist, Tactical Operator &
Police Instructor, Safety/Security/Crisis Operations Specialist, &
Government Tracker

Duties: Intelligence, Criminal, & Civil Casework; High Threat
Warrants, Police Use of Force, Officer Safety/Arrest & Control,
Human Behavior in Violent Conflict, Predatory & Affective Human
Combative Behavior, Animal & Human Tracking Forensic Analysis, Research, Evaluation,
& Instruction; Scout Tracking, Bush Survival, & Protective Defense Training; Combat &
Police Ju-Jitsu Applications-Worldwide; Public Safety, Security, & Emergency
Operations



ACADEMIC EDUCATION

BACHELOR OF ARTS IN SOCIAL AND CRIMINAL JUSTICE

2009: ASHFORD UNIVERSITY, CLINTON, IOWA

Honors: Alpha Sigma Lambda National Honors Society for Academic
Excellence.

MASTER OF MILITARY ART AND SCIENCE (MMAS) [FORENSIC SPOOROLOGY]

2011: U.S. ARMY COMMAND AND GENERAL STAFF COLLEGE (CGSC),
FT. LEAVENWORTH, KANSAS

Honors: Distinguished Graduate for receiving the Col. Arthur D. Simons
Center Interagency Writing Award for unprecedented research in Forensic
Spoorology: Seeing and Understanding Human Behavior through
Observation, Classification, and Interpretation of Spoor Evidence.

POSTGRADUATE RESEARCH IN PSYCHOLOGY [PSYCHOMOTOR BEHAVIOR]

2015: NORTHCENTRAL UNIVERSITY, SCOTTSDALE, ARIZONA

PROFESSIONAL EDUCATION

- **16 Jul '86 – 15 Aug '86 Primary Leadership Development Course**
NCO Academy, Ft. Polk, LA
- **15 Apr '87 – 22 May '87 Basic Non-Commissioned Officers Course**
NCO Academy, Ft. Richardson, AK
- **05 Apr '89 – 20 Apr '89 Light Leaders Course,**
AK ARNG, Ft. Richardson, AK
- **25 Mar '91 – 24 May '91 Criminal Investigator Course #CI-114**
Federal Law Enforcement Training Center, Brunswick, Glynn Co., GA
- **25 May '91 – 03 Jul '91 Basic Deputy U.S. Marshal #104**
Federal Law Enforcement Training Center, Brunswick, Glynn Co., GA
- **08 May '95 – 18 May '95 Advanced Deputy U.S. Marshal #506**
Federal Law Enforcement Training Center, Brunswick, Glynn Co., GA
- **05 May '03 – 09 May '03 Intro. to Management and Leadership #303**
U.S. Marshals Training Academy, St. Simons Island, GA
- **24 May '04 – 28 May '04 Law Enforcement Executive Management Course**
FBI Intermountain Law Enforcement Executive Command College, West
Yellowstone, MT
- **22 May '06 – 26 May '06 Managing for Success # 601**
U.S. Marshals Training Academy, St. Simons Island, GA

PROFESSIONAL EXPERIENCE

Stone Dragon House/Koishidokai Wilderness Dojo/Modern Police Jujitsu Dojo; Alaska Statewide

1978-Present, Founder & Director – Private dojo teaching the old ways for a modern world. Integration of the Way of Strategy & Tactics to all things.

United States Army

1984-1988, Airborne Infantryman, Sniper, Team Leader, Squad Leader

Lost Trail Ranch (LTR) LLC HQ Alaska, Anchorage & Wasilla, Alaska

1987-Present, Co-Owner & Director of Operations – Scout Tracking, Survival, & Defense School. Expanded when retired from US Marshals Service (2012) to include

CMDR TY CUNNINGHAM CONSULTING SERVICES, US MARSHALS (RET.)

P.O. Box 230763, Anchorage, AK 99523; (907) 957-3115; ty@losttrailranchhq.com

Human Tracking Forensic (Sporology) Analysis, Behavioral Criminology, Police Arrest & Control. LLC change in 2022.

Det 2 (ABN), LRSO, 207th, AKARNG, Camp Carroll, AK

1988-1997, Team Sergeant, Senior Scout, Sniper, Tracker

U.S. Marshals Service/Department of Justice

1991-2012, District of Alaska, District of Wyoming, Western District of Missouri
Supervisory Criminal Investigator-Deputy U.S. Marshal #0481, Tactical Commander,
Human Tracking Forensic Scientist, Behavioral Criminologist, Safety, Security, &
Emergency Operations Specialist.

IRR, U.S. Army Reserves, St. Louis, MO, 1997-2002

TSC, WYARNG, Camp Guernsey, WY, 2003-2005

Range Control Specialist

4th ID (ROC), WYARNG, Casper, WY, 2005-2006

Assistant Operations Sergeant

Association of Village Council Presidents & Tanana Chiefs Conference 2013-2014

Village Public Safety Officer (VPSO)/Alaska State Trooper Program

Nez Perce Tribal Police Department, Lapwai, ID 2017-2018

Patrol Officer/Rural Ranger Program

City of Juneau, Alaska, Docks & Harbors 2019

Harbor Officer

SouthEast Alaska Regional Health Consortium (SEARHC) 2019-2022

Safety & Security Specialist

Idaho State Hospital North 2022-2023

Psychiatric Treatment Coordinator (STAR) Team

Arizona State Hospital 2023-2023

Security Operations Lead

Spearpoint Training Group, Broken Arrow, Oklahoma 2020 - Present

School Director & Lead Instructor, Scout Tracking Operations School

Chief Scientist, Scout Tracking Research Center

Tracking Historian, Archives & Library of Tracking Research

TEACHING QUALIFICATIONS

- **Certified Tracking Instructor** - U.S. Marshals District of Alaska, Government Tracker Standards Board, 2001-Present

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- **Certified Police Instructor** – Police Training and Standards Council, 1999–Present
- **Certified Police Jujitsu Instructor** – US Marshal Service/District of Alaska, 1994–Present

TEACHING EXPERIENCE

- **Chief Instructor**, Alaskan Kempo Jujitsu System/Modern Police Jujitsu/Federal Marshal Combatives, 1978–Present, Nationwide
 - Military Combatives (Soldier, Officer, Citizen Survival Response)
 - Hanshi August 1997 to October 2007, Koishidokai Institute, Alaska & Wyoming
 - Master of Martial Science in Ju-Jitsu, October 2007
Thesis: The Use of the Police Ju-Jitsu Educational Model for Flight Deck Defense Education.
Advisor's: Mr. D. Cunningham, Dr. Robert G. Natzke
 - Kyoshi August 1990 to July 1997, Alaska Ju-Jitsu Institute, Anchorage, AK
 - Associate Master of Martial Science in Ju-Jitsu, July 1994
 - Renshi August 1986 to July 1990, Cunningham Martial Arts Academy, Juneau, AK
 - Assistant Master of Martial Science in Ju-Jitsu, July 1986
- **Chief Instructor**, Modern Police Jujitsu, Officer Survival, and VIP Protection, 1992–2002, United States Marshals Service–District of Alaska, Anchorage, AK
 - Federal Marshal Combatives (Extreme Close Combat Contact)
 - Defensive Tactics (Use of Force, Suspect Control & Arrest)
- **Commander, Chief of Scouts, Lead Tracker and Instructor, U. S. Marshals Tactical Tracking Unit**, 1998–2002, Scout Tracking Operations, United States Marshals Service–District of Alaska
 - Human Tracking Forensics (Sporology)
 - Cultural and Human Behavior Criminology
 - Crime Scene Reconstruction/Site Exploitation
 - Tactical Firearms Instructor/Modern Police Jujitsu/Federal Marshal Combatives
 - Backcountry Enforcement/Bush Survival
- **Patrol Captain/Commander, Chief of Scouts, Lead Tracker and Instructor, U.S. Marshals Mounted Tracking Unit**, 2002–2006, Scout Tracking Operations, United States Marshals Service–District of Wyoming
 - Human Tracking Forensics (Sporology)
 - Cultural and Human Behavior Criminology
 - Crime Scene Reconstruction/Site Exploitation

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- Tactical Firearms Instructor/Modern Police Jujitsu/Federal Marshal Combatives
- Backcountry Mounted Enforcement/Bush Survival

OTHER EXPERIENCE

TRACKING

LTR Forensics: Scout Tracking, Survival, and Defense

1988-2010, Tracking Forensic Scientist, Field Criminologist, Hopology Researcher, and Chief Tracker

- Worked man and animal tracking services.
- Teaching of man, animal, tactical, combat, search & rescue, law enforcement, crime scene tracking skills and forensic development.
- Research in the areas of footfall trace and impression evidence. wilderness crime scene management and reconstruction analyst.

International Society of Professional Trackers

1997-1999, Co-Founder & Executive Director

- Man, and animal tracking services to all trackers worldwide.
- Established worldwide organization of trackers.
- Organized ISPT objectives and instituted first international symposium.

International Society of Professional Trackers

1997-2012, Co-Founder, Tracking Historian, & Staff Writer

Staff writer for Track & Sign "Founder's Track Trap" series.

Tracking Historian for the ISPT Archives and Library of Tracking Research.

CERTIFICATIONS, QUALIFICATIONS AND LICENSURE

Firearms Qualifications

M16, Expert, U.S. Army, 1984-2006

M21 SWS, Expert, U.S. Army, 1987-2006

AR15, Expert, U.S. Marshals, 1991-2011

Glock 22, Expert, U.S. Marshals, 1993-2011

MP 5/10, Expert, Federal Bureau of Investigation (FBI), 1995-1998

UMP, Expert, U.S. Marshals, 1995-2011

Glock 17, Distinguished Expert, Nez Perce Tribal Police Department, 2017

Professional Certifications

Basic Parachutist, 1984

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Advanced Parachutist, 1984
U.S. Army Arctic Survival Specialist, U.S. Army, 1987
U.S. Army Sniper, U.S. Army, 1987
Personal Protection Specialist, USMS-D/AK, 1991
Criminal Investigator-Deputy U.S. Marshal, USMS-D/AK, 1991
Police Ju-Jitsuan, 9th DAN, USMS-D/AK, 1994
SWAT Operator, FBI-Anchorage, 1996
Certified Scout, USMS-D/AK, 1997
Certified Police Instructor, APSC, 1999
Certified Scout Tracker, USMS-D/AK, 1999
Crisis Negotiator, FBI-Anchorage, 1999
Basic SCUBA, NAUI, 2000
Certified Senior Scout Tracker, USMS-D/AK, 2002
Supervisory Criminal Investigator-Deputy U.S. Marshal, USMS-D/WY, 2002
Certified Master Scout Tracker, USMS-D/WY, 2004
Protective Intelligence Investigator, USMS-D/WY, 2006
Tracking Certifications (U.S. Marshals Service-District of Alaska & Wyoming):
 Reconnaissance & Surveillance, 1993
 Tactical, 1995
 Search and Rescue, 1997
 Instructor, 2001
 Urban Crime Scene, 2001
 Wilderness & Animal Crime Scene, 2001
 Mounted Backcountry, 2005
 Pack Handler, 2005

CLEARANCES

- Top Secret, U.S. Marshals, 2003-2012
- Secret, U.S. Marshals, 1991-2003
- Secret, U.S. Army Reserves & Guard, 1988-2006
- Secret, U.S. Army, 1984-1988

HONORS & AWARD

- Kenpo Karate Hall of Fame, Inductee, 2018
- Simons Center Interagency Writing Award- U.S. Army Command and General Staff College (Thesis on Forensic Spoorology), 2011
- U.S. Army Command and General Staff College Distinguished Graduate, 2011
- U.S. Army 37th Chief of Staff, General Martin Dempsey Coin, 2011
- Alpha Sigma Lambda National Honors Society, 2009
 Outstanding Academic Achievement
- United States Marshals Service Special Service Award, 2008
- United States Marshals Service Special Service Award, 2007
- International Martial Art Black Belt Hall of Fame Inductee-Golden Anniversary Award for over Forty Years in Martial Arts, 2006

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- Letter of Outstanding Investigative Assistance, Director of the Federal Bureau of Investigations, 2004
- United States Marshals Service Outstanding Performance Award, 2000
- Letter of Outstanding Performance, Director of U.S. Marshals Service, 2000, Awarded for recognition of outstanding performance of official duties by providing protection of Elian Gonzalez and his father during Operation QuinCY.
- Letter of Outstanding Performance, Director of U.S. Marshals Service, 2000, Awarded for recognition of outstanding performance of official duties by teaching prevention of workplace violence to the Wrangell Police Dept.
- United States Marshals Service Superior Performance Award, 1997, Awarded for superior performance of official duties by teaching defensive tactics and human tracking forensics to the military and law enforcement communities.

- Quality Step Increase-U.S. Marshal-District of Alaska, 1997
- World Martial Arts Hall of Fame Inductee, 1995
- The Bushido-Brotherhood Martial Arts Council Fellowship, 1994
- World Head of Family Sokeship Council Fellowship, 1994-1998
- World Martial Arts Hall of Fame Inductee, 1994
- Who's Who in Martial Arts Elite Black Belts Inductee, 1993

Military-U.S. Army, 1984-2006

- Army Service Ribbon
- Army Achievement Medal
- National Defense Service Medal
- Army Good Conduct Medal
- Army Overseas Service Ribbon
- Rifle M16 Expert Qualification Medal
- Army Lapel Button
- NCO Professional Development Ribbon 1
- NCO Professional Development Ribbon 2
- Wyoming National Guard 5yr Service Ribbon

RECOGNITIONS & APPEARANCES

RADIO

- Magazine Radio Show, KBYR 700, "Tracking in Law Enforcement", KBYR 700, Anchorage, AK, 1997
- "Ty's Tuesday Tracking Tips," Alaska Outdoor, Anchorage, AK, 1999-2000

TELEVISION

- "Women in Law Enforcement," Oxygen TV Network, Anch., AK; NY, NY, 2000
- "The Chase: Track Down," Court TV, New York, NY, 2005
- "Hidden Cities Anchorage," Travel Channel, 2012

STATE

- Anchorage Daily News, Anchorage, AK, 1998
- The Skamania County Pioneer, Stevenson, WA, 1999

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NATIONAL

- U.S. Marshals Service Newsletter, Arlington, VA, 1998
- National Native American Law Enforcement Officers Association Newsletter, Washington, D.C., 1998
- U.S. Fish and Wildlife Newsletter, World Wide Web, 2000
- The Frederick Russell Burnham Historical Society, Tucson, AZ, 2004

INTERNATIONAL

- International Society of Professional Trackers, Track and Sign Newsletter, Santa Rosa, CA, 1998-Present
- Royal Canadian Mounted Police Magazine, "Gazette" – Modern Day Scouts, Quebec, Canada, 1999
- Man Tracking University, World Wide Web, 2007

RESEARCH CONCENTRATIONS

My main research interest is the forensic criminology modalities of combative applications and behavior (sociology/psychology) or human instinct in violent conflict as well as man and animal tracking (spoorology), therefore, dynamic & static footfall factors in relation to primitive tracking as to human violent conflict applications, the study of human and animal tracks/trackways, and their relationship to human combative applications and behavior. Moreover, I try to generate research questions from these track impressions focusing on how they might provide insights on human and animal behavior—generally, and on human combative applications and behavior—specifically in relationship to macro and micro criminology (understanding behavioral patterns). Some of these questions include: (1) how does a human reflect its potential combative behavior versus actual combative behaviors shown by their impressions at any crime scene substrate? Or (2) how do foot impressions indicate combative behaviors similar or different from those we might observe in visually recognizable combative behavior?

I study modern combative behavioral attributes to include performance and comportment significant to mindset/bodyset applications and spoor impressions, specifically; and, where necessary, spoor trace impressions, generally. I do this using a comparative approach that looks at how impressions are made and why, and especially, in relation to hopology/forensic human combative applications and behavior in violent conflict, crime scene reconstruction, and spoorology/forensic footfall analysis. I look at how these impressions deteriorate over time, and by what processes, then I develop hypotheses on how well they show combative behavioral interactions of human organisms in context with their environments and the circumstances of predatory and affective human combative applications and behavior.

APPLIED RESEARCH: FORENSIC TESTIMONY & EXPERTISE

Qualified as a criminal investigator, behavioral criminologist, theoretical spoorologist with expertise in human combative applications and behavior, human instinct in violent conflict, officer survival and safety, personal protection and self-defense, arrest control, weapon employment, fighting system analysis, and combative performance; also congruent applications in footfall behavior with collateral expertise in footfall/footprint spoor trace & impression evidence, psychomotor behavioral profiling, human tracking, and wilderness, animal, and urban crime scene reconstruction/examination and forensic analysis and have testified as an amicus curia (friend of the court), fact witness, & expert witness in federal and state court jurisdictions.

APPLIED RESEARCH: HOPLOLOGY - TECHNICAL & FORENSIC ADVANCEMENTS

SELF-DEFENSE/OFFICER & CITIZEN SURVIVAL RESPONSE/ARREST
CONTROL/WEAPON EMPLOYMENT/COMBATIVE APPLICATIONS AND BEHAVIOR

- **OSD-Officer-Subject Dynamic**-Subject Factorization: Gender, Fitness, Age, Size, Skill, Multiples Pro, Multiples Con; Extraordinary Conditions: weapon proximity, foreknowledge, injury/exhaustion, limited position (ground), disability, imminence of danger, environment
- **OSAS-Officer Survival Arrest Sequencing**- Control, Restrain, Search, Transport
- **ACP-Active Control Processing**-Decision Making, Tactical Evaluation, Threat Assessment
- **SOR-Subject Oppositional Resistance**-Yes (No resistance), maybe (Undecided, passive resistance), no (Active Resistance)
- **DRM-Disturbance Resolution Model**- Approach Considerations, Intervention Options, Follow Through Considerations (Stabilization/application of restraints,
- Monitoring/Debriefing, search procedures, escort, transport, turn over/removal of restraints)
- **CP-Control Perception**-Training, Experience, Fact Situation (Totality of Circumstance)
- **POC-Positions of conflict**-Neutral, advantage, disadvantage, will, dominance
- **AA-Action Analytics**-Perceive, Analyze, Evaluate, Formulate, Initiate
- **SOI-Spheres of Influence**-Obscure, Actual, Neutral, Projected, Unified
- **DLA-Demarcation Lines of Advance**-Forward Edge, Pressure Edge, Release Edge
- **CPE/E-Conical Path of Entry & Exit**-Impact point gradient, Impact point, terminal point, terminal point gradient, Apex
- **POI-Paths of Influence**-Ground, Aerial, Simplicity, Infinity
- **EOF-Economy of Force**-Invisible action, Motion Economy, Sustained Effect
- **CA-Contact Applications**-Centralization, initiation, acceleration, pressurization, penetration, manipulation, immobilization, unification
- **TA-Targeting Acquisition**-Of focus, natural lines of drift, of circumstance, positions of attack, lines of attack
- **TH-Target hardening**-zones of protection, actionable defense protocol, reactable action, reflex imperative
- **SC-Strategic Concepts**-Initiative, Depth, Agility, Synchronization

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- **Strategic Standards for Human Combative Applications and Behavior:**
- **TSCC-Training Synergy Combat Conditioning**-Physical Ideal, Mental Purging, Physical Renewal, Mental/physical Interface, Spiritual rooting, Neura-Drive
- **EFR-Environmental Focus Resonance (Mental States)**-Unaware, general, specific, imminent, line of attack, object resources, terrain, time, dominance awareness
- **RPM-Relative Positioning Model**- 1, 2, 2.5, 3
- **MPA-Maneuver/Position/Alignment**-Objective, maneuver, angles of approach, directional angles/off target-linear, rotational, target, weapon, contour/fit/tracking, alignment of mass, marriage of gravity/settling/torque, sanctuary
- **IR Intent/Combative Intent**-Implied, Real
- **UFT-Use of force/time**-Controlled, creation, utilization, compression of time, escalation of force, check/jam/stall
- **RLT-Ranges of Linear Time**-extended, long, medium, close (Approach, Entry, Contact)
- **3D Harm**-defend, distract, disturb, harm
- **ESC-Effect/set/counters**-cause, set-up, neutralize
- **ZOC-Zones of Cancellation**-Outer edge of efficiency, quadrant and dimensional application, height, width, depth, obscurity
- **PTT-Pain Threshold Tolerance**- Attitude: Pain referencing, mental state; Positions of advantage
- **AD IOS-interim of succession**-response, follow through, submission/posture/fight/flight
- **CR-Conflict Resolution**-Size, Balance, Comprehensiveness
- **CV-Conflict vibrancy:**
 - **CV/P-Power**-maneuver, firepower, protection, leadership
 - **CV/I-Imperatives**-unity of effort, strengths against weakness, effort designation and sustainment, fast-hard-rapidly, terrain and weather, force protection
 - **CV/TAW-Terrain and weather**-Analysis (key terrain, decisive terrain, avenues of approach, defensible-static/dynamic), using terrain (cover, concealment, movement, obstacle, observation, and fire), reinforcement, Types of terrain (natural, man-made-built up, structure)
 - **TC-Technique Configuration**-posture, balance, relaxation, speed, accuracy of targeting, angles of access, body alignment, back-up mass, economy of force, timing, telegraphing, coordination, focus, torque, body momentum, gravitational marriage, selection of tools, penetration, transition, distance, Cover
 - **DAE-Defense application enhancement**-philosophy, environment, range, position, maneuver, targeting, weapon selection, checks, covering, control
 - **PAM-Permittable Action Model**- Disengage/deescalate; Engage/Escalate (Based on OSD)
 - **ATP-Anatomical Targeting Points**-100

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**APPLIED RESEARCH: SPOOROLOGY – HUMAN TRACKING FORENSIC & TECHNICAL
ADVANCEMENTS**

- BGS–Behavior, Gait, Spoor (BGS) Paradigm
- OCISE–Observation, Classification, Interpretation of Spoor Evidence Algorithm
- OSR–Observational Spoor Recognition
- SP–Spoor Platting
- SCS–Spoor–Chain Signature
- COS–Classification of Spoor
- FMA–Foot Measurement Analysis
- QRA–Quadrant Reference Analysis
- FMA–Foot Mapping Analysis
- GCP–Ground Contact Points
- GP–Gait Platting
- GFS–Gait–Footfall Sequencing
- GBI–Gait Biometric Identification
- BP–Behavior Platting
- ATP–Aerial Travel Points
- ACE/E–Cone of Entry–Cone of Exit
- PTC–Pre–Trailing Checklist
- ITA–Initial Trail Assessment
- TCS–Trail Confirmation Standard
- PoTC–Post–Trailing Checklist
- TQR–Target Quarry Reference
- MSZ–Mechanical Stride Zero
- TT–Tracker’s Triangle
- SPD–Scout Pursuit Drill
- SCD–Scout Casting Drill
- TLE–Trails Leading Edge
- HBI–Human Behavior Identification
- DTM–Deliberate Trailing Method
- DyTM–Dynamic Trailing Method
- FIRM–Foot Impression Reference Matrix
- FRA–Foot Roll Analysis (Impact Point Gradient, Impact Point, Flex Point, Pivot Point, Terminal Point, Terminal Point Gradient)
- AFA–Apex of Foot Arc
- VTP–Variable Track Patterns
- GHT–Ground Hardness Type
- GST–Ground Surface Type
- TEC–Track Erosion Computation
- RDA–Register Deviation Anomaly
- MINTREP–Minimum Track Report
- STA–Slope Topography Analysis
- TSA–Tracker Sketch Analysis
- USF–Uniform Scale Format
- ERT–Eight Rules of the Tracker
- TCSF–Tracking Crime Scene Format
- SDRF–Spoor Deterioration Risk Factors

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- SMIP-Spoor Models of Interpretation & Projection
- STS2-Seven Tracking Skills Steps
- TC2AN-Tracking Communication Control Alpha-Numeric
- BSF-Blood Spoor Forensics
- FSD-Forensic Spoor Description
- CSTK-Crime Scene Tracking Kit
- TPC-Trailing Profile Checklist-Man Tracking Blueprint
- FTO-Forensic Trailing Outline
- FSC-Forensic Spoor Card
- QSF-Quarry Spoor Formula
- EAS-Eye Accentuation of Spoor

THEORETICAL & APPLIED RESEARCH: CRIMINAL BEHAVIOR/LAW & CRIME/JUSTICE:

CRIMINAL & SOCIAL/VICTIMS & TREATMENT/WELFARE/JUVENILE JUSTICE/JAILS & PRISONS/SENTENCING & PROBATION/FORENSIC SCIENCE & CRIMINAL INVESTIGATIONS/TERRORISM & CRIMINAL VIOLENCE/NATIONAL SECURITY/OTHERS

- **Police Jujitsu and Effective Communication**
- **History of Human Tracking**
- **Safety, Security, & Crisis Operations**
- **Enhancing Law Enforcement Effectiveness**
 - White Collar Crime
 - Enhancing the Criminal Justice System through Police Effectiveness
 - Police Modes of Adaptation
 - Organized Crime
 - Politics in Crime
 - Social Control Theory
 - Trends
 - Undercover Police Work
 - The Science of Behavior
 - Behavioral Genetics, Ecology, and Crime
 - Battered Wife Syndrome
 - Children for Sexual Gratification
 - Origins of Behavior
 - Special Defenses
 - The Victims
 - Prevention and Treatment Programs
- **Beneficiaries of U.S. Welfare**
 - U.S. Minorities
 - U.S. Probation Service
 - Current Trends
 - Globalization

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- Law of Nature
- Social Initiatives
- Social Viewpoints
- Social Welfare Solutions
- Social Welfare Solutions II
- Social Work Organizations
- War on Poverty

- **Juvenile Crime and Delinquency**
 - Juvenile Right's
 - Sentencing
 - Adults vs. Juveniles
 - Case Law Terms
 - Due Process
 - Future of Juvenile Justice
 - Inchoate Crimes
 - Juvenile Gangs
 - Juvenile Probation
 - Juvenile Trial
 - Preventing Juvenile Crime
 - 12. Theories of Juvenile Crime

- **Jails and Prisons**
 - Juvenile Detainees
 - Civil Commitments
 - Crime and Punishment
 - Goals of Sentencing
 - Open and Closed Prison Systems
 - Prison Activities
 - Privatizing Prisons
 - Probation and Parole
 - Punishment
 - Sentencing Techniques

- **Perspectives in Forensic Science**
 - DNA in Criminal Investigations
 - Organic vs. Inorganic Evidence
 - Prosecution of Narcotic Drug Offenses
 - Aggravated Assault
 - Alcohol
 - Comparing Bullets
 - Conducting an Investigation
 - Cybercrime
 - DNA-Typing Technique
 - Hair as Evidence
 - Major Contributions
 - Property
 - Serology

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- Spoorology – Spoor Trace Evidence
- **Enhancing All Anti-Terrorist Tactics through Operational Security**
 - Middle East and Africa
 - Terrorism Right and Left
 - Definition of Terrorism
 - Sacrifices
 - Terrorist Organizations
 - Counter Terrorism Methods
 - History of Terrorism
 - Fear Weaponized
 - Iraq
 - Religion and Terrorism
 - Weapons of Mass Destruction
- **Criminal Justice Issues**
 - Criminal Justice Tools
 - Death Penalty
 - Media and Criminal Justice
 - Patriot Act
 - Promoting Fairness

CASE EXPERTISE, SPECIAL TESTIMONY, AND LEGAL SUPPORT (SAMPLE)

As a function of law enforcement investigation casework for approximately 25 years as well as professional law enforcement research, development, standardizations, and testing in areas of expertise, this examiner has served as an Amicus Curiae (Friend of the Court) consultant, has qualified in court as an expert witness, on the subjects of US Marshals Service (Fugitive Investigations, Jail Inspections, Conditions of Confinement & Treatment, Prisoner Medical Policy & Procedures), Defensive Tactics, Police Use of Force, Criminal Investigations, Human Tracking Forensic (Track, Trackway, Psychomotor Behavioral/Criminal Profiling & Case Linkage Motive, Modus Operandi and Spoor-Chain Signature Analysis), Footwear Impression, Trace Evidence, Crime Scene Analysis & Reconstruction, Animal Kill Site Reconstruction, Firearms Employment and Bullet Trajectory, False Crime Reporting & Allegations.

This has included expert assistance as described in the following examples:

- McNaulTy et al Homicide and Body Part burial case, Alaska State Troopers, Wasilla, AK
- Amy and Lydia Byron Missing Person Case, Alaska State Troopers, Palmer, AK
- Clinton Baker Murder Case, Alaska Fugitive Task Force, Anchorage, AK
- Goodlataw/Bell Attempted Burglary Case, Alaska State Troopers, Glennallen, AK

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- U.S. District Judge, The Honorable John Sedwick, Utilities tampering case, U.S. District Court, Anchorage, Alaska
- Susan Beth Crawford Missing Person Case, Alaska State Troopers, Glennallen, AK
- Wounded & Missing Brown Bear Recovery Case, ADFG, Ft. Richardson, AK
- Nathan Swain Domestic Violence/foot pursuit Case, CPD, Cheyenne, WY
- Matthew Davis Multiple Burglary Case, CPD, Cheyenne, WY
- Ellory McCaulley Missing Person (Drowning) Case, Carbon County, Rawlins, WY
- Evidence Search for a Missing Weapon Case-Uinta County, Evanston, WY
- Obsidian Theft Case-Yellowstone National Park, U.S. Park Service
- Brown Bear Mulling & False Death Diagnosis Case, Teton Co., Jackson, WY
- U.S. District Judge, The Honorable Ortrie Smith, Burglary/ Stolen government property case, Kansas City, Missouri

CONSULTING, TRAINING, & INSTRUCTING (SAMPLE)

- Juneau Police Department, Juneau, AK
- Alaska State Troopers, Alaska Statewide
- Fish & Game Troopers, Alaska Statewide
- Anchorage Police Department, Anchorage, AK
- Wasilla Police Department, Wasilla, AK
- Palmer Police Department, Palmer, AK
- U.S. Marshals Service, Nationwide
- U.S. District & Magistrate Court, Nationwide
- Alaska Department of Corrections, Alaska Statewide
- U.S. Immigration and Naturalization, Anchorage, AK
- U.S. Drug Enforcement Administration, Anchorage, AK
- U.S. Alcohol, Tobacco, Firearms, and Explosives, Anchorage, AK
- U.S. Federal Bureau of Investigation, Anchorage, AK; Lander, WY; Lewiston, ID
- U.S. Secret Service, Anchorage, AK; Cheyenne, WY
- National Park Service, Glacier Bay National Park, AK
- Chugach State Park, Anchorage, AK
- U.S. Bureau of Land Management, Fairbanks, AK
- Chickaloon Village Traditional Council, Chickaloon, AK
- Grand County Sheriff's Office SAR, Moab, UT
- Moab Police Department, Moab, UT
- Wind River Indian Reservation Police, WRIR, WY
- Wind River Indian Reservation Fish and Game Office, WRIR, WY
- U.S. Bureau of Indian Affairs, WRIR, WY
- Wyoming Highway Patrol, Wyoming Statewide

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- Logan County Sheriff's Office, Sterling, CO
- Washington County Sheriff's Office, Akron, CO
- Fremont County Sheriff's Office, Riverton, WY
- Riverton Police Department, Riverton, WY
- Hot Springs County Sheriff's Office, Thermopolis, WY
- Lincoln Police Department, Lincoln, NE
- Uinta County Sheriff's Office, Evanston, WY
- Lancaster County Sheriff's Office, Lincoln, NE
- U.S. Army SF, Rangers, Airborne, Inf., Nationwide
- Alaska Army National Guard, Alaska Statewide
- Alaska Air Guard, Kulis Air Base, Anchorage, AK
- Yukon Quest Sled Dog Race, Fairbanks, AK
- U.S. Fish and Wildlife Service, Alaska Statewide
- U.S. Forest Service, Tongass National Forest, AK; Chugach National Forest, AK; Shoshone National Forest, WY; Bridger-Teton National Forest, WY
- Lower Yukon School District, Mountain Village, AK
- Northwest Arctic Borough School District, Kotzebue, AK
- Lower Kuskokwim School District, Bethel, AK
- Nez Perce Tribal Police Department, Lapwai & Kamiah, ID

Consultation given also to public and private groups, programs, and task forces throughout the U.S. and Canada. Speaker at law enforcement and attorney conferences and gatherings. With special in-court consultation and committees with federal judiciary.

PROFESSIONAL ASSOCIATIONS

- World Street Combat Systems Organization (Life Member), 2022
 - WSCSO Country Director (Alaska)
 - Military Combat/ Law Enforcement Tactics, International Advisor
- Kenpo Karate Hall of Fame (Inductee), 2018
- Pipe Hitters Tactical Association (Charter Member), 2011
- League of Combat Jiu-Jitsu, 2011
- International Hoplology Society, 2010
- All Japan Ju-jitsu International Federation (Life Member), 2009
 - Modern Police Jujitsu, 9th Dan
- Federal Law Enforcement Officers Association
 - Retired, 2012
 - Wyoming Chapter, 2002
 - Alaska Chapter, 1991
- International Society of Professional Trackers (Life Member)
 - Tracking Historian, ALTR, 2007
 - Editor, The Founder's Track Trap, Track & Sign, 2003
 - Charter Member, 1998
 - Co-founder, 1997
- The Frederick Russell Burnham Historical Society of Tucson
 - Charter member, 2004
- Nippon Dai Samurai Jiu-Jitsu Federation, 1994
- The Bushido-Brotherhood Martial Arts Society, 1994

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- The Bushido-Kai Kun Tai Ko Jiu Jitsu Council, 1994
- The World Martial Arts Hall of Fame, 1993
- Karate International Magazine, Who's Who in the Martial Art Elite Black Belts, 1992

SPECIALTY TRAINING COURSES AND SCHOOLS

- Indian Country Law, 2017, U.S. Attorney General's Office, Charleston, SC
- Field Training Officer, 2017, Nez Perce Tribal Police Department, Lapwai, ID
- Village Police Officer Course, 2013, Alaska State Troopers, Bethel, Alaska
- Automated Law Enforcement Response Team (ALERT II), 2008
Regional Computer System, Kansas City Police Department, Kansas City, MO
- Nuisance Wildlife Best Practices Course, 2007, Kansas City, MO
- Wildlife Damage Inspection Course, 2007, Kansas City, MO
- Protective Investigations School, 2006, FLETC-Brunswick, GA
- Managing for Success, 2006, St. Simons, GA
- Basic Backcountry Mounted Enforcement School, 2005, Powell, Wyoming
- FBI Regional Command College, 2004, West Yellowstone, Montana
- Improvised Explosive Devices, 2004, 10th Special Forces, Camp Guernsey, WY
- Intro. To Management & Leadership, 2003, St. Simons, GA
- Simplified Acquisition Procedures, 2003, Denver, CO
- Contracting Officer's Representative Course, 2003, Denver, CO
- Wyoming Criminal Justice Information Network, 2002, Cheyenne, WY
- Structured Interviewer Training, 2002, Ft. Lauderdale, FL
- Prisoner Tracking Computer System, 2001, Anchorage, AK
- High Arctic Survival, 2001, Anchorage, AK
- Shoe and Tire Evidence Specialist Course, 2000, Anchorage, AK
- Basic Open Water SCUBA, 2000, San Juan, Puerto Rico

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- Basic Meteorology, Cloud Identification and Forecasting, 2000, Elmendorf AFB, AK
- Crisis Negotiation Course, 1999, Anchorage, AK
- Electronic Surveillance, 1999, Anchorage, AK
- Arctic and Sub-Arctic Survival Training, (Summer), 1998, Talkeetna, AK
- Advanced Deputy U.S. Marshals Course, 1998, FLETC, Glynco, GA
- Methods of Instruction Course, 1998, Alaska State Troopers, Ft. Richardson, AK
- VIP Protection Course, 1996, FBI, Anchorage, AK
- Cold Weather Survival, 1995, FBI, Ft. Richardson, AK
- Defensive Tactics/Subject Handling, 1995, FBI, Ft. Richardson, AK
- Assault Options and Processes, 1995, FBI, Ft. Richardson, AK
- Combat Handgun and Sub-Gun Course, 1995, FBI HRT, Anchorage, AK
- SWAT Training Course, 1995, FBI, Salt Lake City, UT
- Law Enforcement Clears, 1995, FBI, Ft. Richardson, AK
- Tactical Room Clearing, 1995, FBI, Ft. Richardson, AK
- Advanced Deputy U.S. Marshals Course, 1995, FLETC, Glynco, GA
- Felony Car stops, 1995, FBI, Ft. Richardson, AK
- Long-Range Surveillance Course, 1993, Schofield Barracks, Oahu, Hawaii
- Seized Asset Management, 1991, FLETC, Glynco, GA
- Auto-Pistol Transition Course, 1991, Anchorage, Police Department, Anchorage, AK
- Basic Deputy U.S. Marshals Course, 1991, FLETC, Glynco, GA
- Criminal Investigator Course CI-114, 1991, FLETC, Glynco, GA
- Light Leaders Course, 1990, Ft. Richardson, AK
- Expert Infantry Training, 1987, U.S. Army, Ft. Richardson, AK
- Light Sniper School, 1987, Ft. Richardson, AK

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- Basic Non-Commissioned Officer's Course, 1987, Ft. Richardson, AK
- Northern Warfare and Survival Course, 1987, Ft. Greeley, AK
- Primary Leadership Development Course, 1986, U.S. Army, Ft. Polk, LA
- Advanced Ambush Training, 1986, U.S. Army, Ft. Polk, LA
- Ranger-Dismounted Patrolling Training, 1985, U.S. Army, Camp Rudder, FL
- Dragon Gunners Course, 1984, U.S. Army, Ft. Bragg, N.C.
- Advanced Parachutist Course, 1984, U.S. Army, Ft. Bragg, N.C.
- Basic Airborne School, 1984, U.S. Army, Ft. Benning, GA
- Infantry One Station Unit Training, 1984, U.S. Army, Ft. Benning, GA

PUBLICATIONS-PROFESSIONAL & PUBLIC

- Cunningham, Ty. (2016). *Professional Tracker's Logbook*. Rexburg, ID: Mountain Hawk Publishing.
- Cunningham, Ty. (2015). *Forensic Spoorology: Seeing and Understanding Human Behavior through Observation, Classification and Interpretation of Spoor Evidence*. Rexburg, ID: Mountain Hawk Publishing.
- Cunningham, Ty. (2015). *Scout-Tracker Guide: Basic Trailing and Surveillance Concepts for Modern Scouting in Law Enforcement*. Rexburg, ID: Mountain Hawk Publishing.
- Cunningham, Ty. (2015). *Ty Cunningham's Kempo Codex: Law of the Fist / 1 Battle Output to Input Paradigm & Battle Matrix Algorithm*. 10th degree Black Belt Promotion Thesis, Alaskan Kempo Jujitsu System, White Eagle School of Martial Arts/Universal Kenpo Federation-Alaskan Method.
- Baucon A., Bordy E., Brustur T., Buatois L., Cunningham, T., De C., Duffin C., Gaillard C., Felletti F., Hu B., Hu L., Jensen, S., Knaust D., Lockley M., Lowe P., Mayor A., Mayoral, E., Muttoni, G, Neto de Carvalho C., Pollard J., Rindsberg A., Seike K., Santos A., Song H., Turner S., Uchman U., Wang Y., Yi-ming G., Zhang W., Zhang L. (2012). A history of ideas in ichnology. In Dirk Knaust and Richard G. Bromley, eds., *Trace Fossils as Indicators of Sedimentary Environments*, Developments in Sedimentology, Volume 64 ISBN-10: 0444538135 - ISBN-13: 978-0444538130, Publication Date: December 27, 2012
- Cunningham, Ty. "Forensic Spoorology: Seeing and Understanding Human Behavior through Observation, Classification and Interpretation of Spoor Evidence." Master's Thesis, U.S. Army Command and General Staff College, 2011. (Digital)

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- Cunningham, TY (2010 September). The founder's track trap: Respond to the trail Part I. *Track & Sign*. Santa Rosa, CA: ISPT.
- Cunningham, TY (2010). *Kansas City operational performa*. Kansas City, MO: U.S. Marshals Service Western District of Missouri.
- Cunningham, TY (2009, Summer). The founder's track trap: Scout tracker team mission statement and policy go-by (Part One). *Track & Sign*. Santa Rosa, CA: ISPT.
- Cunningham, TY (2008). *Rational perspectives in survival behavior: Training the will to survive*. LTR(F)-TSD, Cameron, MO
- Cunningham, TY (2008, Spring). The founder's track trap: Scout tracker training programs. *Track & Sign*, 28, 2-5. Santa Rosa, CA: ISPT.
- Cunningham, TY (2007, Winter). The founder's track trap: The face of scout tracking. *Track & Sign*, 27, 2-3. Santa Rosa, CA: ISPT.
- Cunningham, TY (2007). *The use of the police ju-jitsu educational model for flight deck defense education*. LTR(F)-TSD, Cameron, MO
- Cunningham, TY (2007, Summer). The founder's track trap: Weather, aging spoor, and my TEC formula. *Track & Sign*, 25, 2-13. Santa Rosa, CA: ISPT.
- Cunningham, TY, Rowe, C., & Otte, M. (2006). *Use of Mules and Horses in the Backcountry: Packing and Tracking*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2006). *Scout tracking: Silent team signals during Visibility conditions*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY, & Steele, B. (2006). *Working at night for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY, & Steele, B. (2006). *Geographic considerations for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2006, Winter). The founder's track trap: Staining. *Track & Sign*, 22, 2-3. Santa Rosa, CA: ISPT.
- Cunningham, TY (2005). *Crime scene tracking for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.

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- Cunningham, TY (2005). *Search and rescue tracking for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). Methods of observation. *Wilderness Way*, 10(4), 25–28.
- Cunningham, TY (2005, Summer). The founder’s track trap: Scout tracking published. *Track & Sign*, 21, 2. Santa Rosa, CA: ISPT.
- Cunningham, TY, Otte, M., & Rowe, C. (2005). *Scout combatives: Basic physical applications*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY, Orde, C., & Orde, C. (2005). *Use of Tracking Dogs for Law Enforcement, Military, and Search & Rescue*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2005, Winter). The founder’s track trap: Scout tracker virtues (Part VII). *Track & Sign*, 20, 2–3. Santa Rosa, CA: ISPT.
- Cunningham, TY (2003). What to look for: An introduction to tracking. *Wilderness Way*, 10(1), 23–27.
- Cunningham, TY (2004). *Scout tracking operations (Vol. 2): Basic trailing and surveillance concepts for operational trackers*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2004). *Scout tracking operations (Vol. 1): Basic trailing and surveillance concepts for operational trackers*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2004, Spring). The founder’s track trap: Scout tracker virtues (Part VI). *Track & Sign*, 19, 2. Santa Rosa, CA: ISPT.
- Cunningham, TY (2004, Spring). The founder’s track trap: Scout tracker virtues (Part V). *Track & Sign*, 18, 2. Santa Rosa, CA: ISPT.
- Cunningham, TY (2004). *Scout tracking: How to see and what to look for*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2004, Winter). The founder’s track trap: Scout tracker virtues (Part IV). *Track & Sign*, 17, 2. Santa Rosa, CA: ISPT.
- Cunningham, TY, & Otte, M. (2003). *Marshals Mounted Tracking Unit–Program of Instruction*. Cheyenne, WY: U.S. Marshals Service–District of Wyoming: Mounted Tracking Unit.

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- Cunningham, TY (2003). *Tracking basics*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). How to see: An introduction to tracking. *Wilderness Way*, 9(3), 6-10.
- Cunningham, TY (2003). *Aging sign & weather*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Camouflage & movement in the tracking role*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Tracking the evader*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Command & control of tracking teams*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Tracking IADs & counterambush drills*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Search tracking & lost person behavior*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Crime scene tracking*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Reconnaissance & surveillance tracking*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Animal sign recognition & contamination*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Introduction to land navigation: Map & compass*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003). *Self-aid & buddy aid*. [CD]. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003, Spring). Master tracker series: Understanding the seven steps using the key word T.R.A.C.K.E.R.-part two. *Primitive Archer*, 11(1), 51-67.

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- Cunningham, TY, Otte, M., & Sands, H. (2003). *Scout survival for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003, Autumn). The founder's track trap: Scout tracker virtues (Part III). *Track & Sign, 16, 2*. Santa Rosa, CA: ISPT.
- Cunningham, TY, & Otte, M. (2003). *Scout tracker trailing outline*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003, Spring/Summer). The founder's track trap: Scout tracker virtues (Part II). *Track & Sign, 15, 3*. Santa Rosa, CA: ISPT.
- Cunningham, TY, & Guinn, K. (2003). *Surveillance & reconnaissance for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY, & Guinn, K. (2003). *Surveillance hides for law enforcement and military*. Cheyenne, WY: U.S. Marshals Service-District of Wyoming: Mounted Tracking Unit.
- Cunningham, TY (2003, Winter). The founder's track trap: Scout tracker virtues (Part I). *Track & Sign, 14, 2-11*. Santa Rosa, CA: ISPT.
- Cunningham, TY (2002, Winter). Master tracker series: Understanding the seven steps using the key word T.R.A.C.K.E.R. *Primitive Archer, 10(4)*, 60-67.
- Cunningham, TY (2002, Fall). Master tracker series: Eight rules for tracking an animal. *Primitive Archer, 10(3)*, 60-66.
- Cunningham, TY (2002, Summer). Master tracker series: Using your bow to trail an animal. *Primitive Archer, 10(2)*, 16-25.
- Cunningham, TY (2002). *Flight deck defense: The direct-action initiative*. Anchorage, AK: U.S. Marshals Service-District of Alaska: Police Dojo.
- Cunningham, TY (2002, March). The trailing mission & your sphere of influence. *Track & Sign, 12*, 10-13. Santa Rosa, CA: ISPT.
- Cunningham, TY (2001). *Principles and virtues of the scout tracker*. Anchorage, AK: U.S. Marshals Service-District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (2001). *Six basic indicators of scout tracking*. Anchorage, AK: U.S. Marshals Service-District of Alaska: Tactical Tracking Unit.
- Otte, M., & Cunningham, TY (2000). *Learning to track Alaska's wildlife: Activity coloring book*. Eagle River: Broken Heart Books.

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- Cunningham, TY (2000). *The eight rules of T.R.A.C.K.I.N.G.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY, & Guinn, K. (1999). *Scout tracker team mission statement and policy go-by.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY, Otte, M., Phillips, W., Johnson, R., Murphy, J. (1999). *Scout Tracker Certification Procedures for Law Enforcement, Military, and Search & Rescue.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY & Otte, M. (Eds.). (1999). *Scout tracker training program.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1999). *Scout tracking: Comprehensive glossary of terms.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY, & Guinn, K. (1998). *Scout tracker training program.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Responding to the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Enlarging the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Knowing the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Confirming the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Assessing the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Receiving the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1998). *The scout tracker: Thinking of the trail.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Tactical Tracking Unit.
- Cunningham, TY (1994). *The science of police ju-jitsu: Ancient truth to modern reality the practice of officer safety and survival.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Police Studio.
- Cunningham, TY (1990). *Police ju-jitsu program modules for officer survival response.* Anchorage, AK: U.S. Marshals Service–District of Alaska: Police Studio.

KEYNOTE SPEECHES, LECTURES, PRESENTATIONS, & COURSES

National/State/Regional:

- Arlow, S. & Cunningham, T. (2023). *Crime Scene Investigations, Human Tracking Forensics, Effective behavioral communications, Personal Boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology*. Invited Teaching to Yupik Native Youth Group, Alaska Excel/ Alaska State Trooper/US Marshals-Alaska Youth Academy, Anchorage, AK, October 10-22, 2023.
- Arlow, S. & Cunningham, T. (2023). *Crime Scene Investigations, Human Tracking Forensics, Effective behavioral communications, Personal Boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology*. Invited Teaching to Yupik Native Youth Group, Lower Kuskokwim School District/ Alaska State Trooper/US Marshals-Alaska Youth Academy, Nenana, AK, May 8-12, 2023.
- Arlow, S. & Cunningham, TY (2023). *Crime Scene Investigations, Human Tracking Forensics, Effective behavioral communications, Personal Boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology*. Invited Teaching to Yupik Native Youth Group, Lower Kuskokwim School District/ Alaska State Trooper/US Marshals-Alaska Youth Academy, Bethel, AK, March 20-24, 2023.
- Arlow, S. & Cunningham, TY (2022). *Crime Scene Investigations, Human Tracking Forensics, Effective behavioral communications, Personal Boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology*. Invited Teaching to Yupik Native Youth Group, Lower Kuskokwim School District/ Alaska State Trooper/US Marshals-Alaska Youth Academy, Bethel, AK, June 6-10, 2022.
- Cunningham, TY (2022). *Saami Indigenous Tracking & Ways of knowing*. Teaching to Yup'ik Youth, Lower Yukon School District, Pilot Station, AK, April 20-21, 2022.
- Cunningham, TY (2022). *Saami Indigenous Tracking & Ways of knowing*. Teaching to Yup'ik Youth, Lower Yukon School District, Kotlik, AK, April 18-19, 2022.
- Cunningham, TY (2022). *Saami Indigenous Tracking & Ways of knowing*. Teaching to Yup'ik Youth, Lower Yukon School District, Alakanak, AK, April 15-16, 2022.
- Cunningham, T. (2022). *Saami Indigenous Tracking & Ways of knowing*. Teaching to Yup'ik Youth, Lower Yukon School District, Hooper Bay, AK, April 14-15, 2022.
- Cunningham, TY (2022). *Saami Indigenous Tracking & Ways of knowing*. Teaching to Yup'ik Youth, Lower Yukon School District, Mountain Village, AK, April 11-13, 2022.
- Arlow, S. & Cunningham, TY (2022). *Crime Scene Investigations, Human*

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Tracking Forensics, Effective behavioral communications, personal Boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology. Invited Teaching to Yupik Native Youth Group, Lower Kuskokwim School District/ Alaska State Trooper/US Marshals-Alaska Youth Academy, Bethel, AK, April 4-8, 2022.

- Cunningham, TY (2021). *Basic SAR tracking.* Invited course at Anchorage Search Team, Anchorage, Alaska, June 2021.
- Cunningham, TY (2021). *Basic law enforcement tracking.* Invited course at TSI, Crowheart, Wyoming, May 2021.
- Cunningham, TY, Fenn, B., Graham, C. (2021). *Basic law enforcement tracking.* Invited course at DEA SE HIDTA, Asheville, N.C., April 2021.
- Cunningham, TY (2019). *Crime Scene Investigations, Human Tracking Forensics, Effective behavioral communications, personal boundary protection with LE Defensive Tactics, Self-Defense Law, Wilderness Survival Psychology.* Invited Teaching to Yupik Native Youth Group, Alaska State Trooper-Alaska Youth Academy, Fairbanks, AK, July 2019.
- Cunningham, TY (2016). *Alaskan Kempo Jujitsu System.* Teaching to Inupiat Youth Summer School, Northwest Arctic Borough School District, Kotzebue, AK, May 16-27, 2015.
- Cunningham, TY (2015). *Alaskan Kempo Jujitsu System.* Teaching to Inupiat Youth Summer School, Northwest Arctic Borough School District, Kotzebue, AK, May 18-29, 2015.
- Cunningham, TY (2013). *Jujitsu basics of motion, effective behavioral communications, and personal boundary protection.* Invited Teaching to Yupik Native Youth Group, Lower Yukon School District, Scammon Bay, Nunam Iqua, Mountain Village, AK, September 15-25, 2013.
- Cunningham, TY (2013). *Jujitsu basics of motion, effective behavioral communications, and personal boundary protection.* Invited Teaching to Yupik Native Youth Group, Alaska State Trooper-Alaska Youth Academy, Mountain Village, AK, June 8-12, 2013.
- Cunningham, TY (2011). *Survival mindset, practical behavior, and prevention awareness in violent times.* Invited Lecture for Youth Group, LDS Church, Cameron, MO, Sept 28, 2011.
- Cunningham, TY (2007). *Scout tracking operations-basic course-60 hours.* Invited in Service Training for the U.S. Marshals Tactical Tracking Unit, District of Alaska, Mulchatna River, AK, July 2007.
- Ostrom, R., Rowe, C., Cunningham, T., and Others. (2006). *Packing and tracking course.* Invited course for the 10th Mountain Division at Powell, WY, January 2006.

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- Cunningham, TY (2005). *Law enforcement tracking*. Invited Seminar for the Lancaster County Sheriff's Office, Lincoln, NE, 2005.
- Cunningham, TY, & Bort, B. (2005). *Search & rescue tracking*. Invited Course for the Lincoln County SAR Group, Star Valley, WY, 2005.
- Cunningham, TY, Mears, J., Von Rein, C. (2005). *Law enforcement tracking*. Invited Course for the Logan County Sheriff's Office, Sterling, CO, 2005.
- Cunningham, TY, Von Rein, C., Rose, T. (2005). *Search & rescue tracking*. Invited Course for the Grand County SAR Group, Moab, UT, 2005.
- Henderman, D., Cunningham, TY, Speiden, R., Cire, A., Erchak, I. (2004). *Basic tracking principles*. Invited presentation at the Court TV production of The Chase: Track down, On-location, Pocono, PA, October 2004.
- Cunningham, TY, Tippy, B, Rager, S., Kirkman, B. (2004). *Scout tracking basic course*. Invited Course for Federal Bureau of Investigation, Ft. Washakie, WY, June 2004.
- Tippy, B, Rager, S., Kirkman, B., Cunningham, TY (2004). *Law Enforcement Tracking*. Invited Course for Wyoming Highway Patrol, Camp Guernsey, WY, April 2004.
- Tippy, B, Rager, S., Kirkman, B., Cunningham, TY (2004). *Law Enforcement Tracking*. Invited Course for Wyoming Highway Patrol, Camp Guernsey, WY, April 2004.
- Tippy, B, Rager, S., Kirkman, B., Cunningham, TY (2004). *Law Enforcement Tracking*. Invited Course for Wyoming Highway Patrol, Camp Guernsey, WY, March 2004.
- Tippy, B, Rager, S., Kirkman, B., Cunningham, TY (2004). *Law Enforcement Tracking*. Invited Course for Wyoming Highway Patrol, Camp Guernsey, WY, March 2004.
- Cunningham, TY (2002). *Scout tracking extended operations-60 hours*. In-service training course for the U.S. Marshals Tactical Tracking Unit, District of Alaska, Prince William Sound, AK. May 2002.
- Cunningham, TY, Otte, M., & Sands, H. (2002). *Arctic survival, snow tracking and Movement-8 hours*. In-service training course given to the U.S. Marshals Tactical Tracking Unit, District of Alaska, Fairbanks, AK, February 2002.
- Cunningham, TY (2001). *Scout tracking instructors course*. In service training course given incrementally from March 7, 1997 through May 25, 2001, U.S. Marshals Tactical Tracking Unit, Anchorage, Alaska, May 2001.

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- Cunningham, TY (2001). *Scout Tracking Advanced Course*. In service training course given to the U.S. Marshals Tactical Tracking Unit, Anchorage, Alaska, May 2001.
- Cunningham, TY, & Otte, M. (2001). *Arctic Survival, Terrain Analysis*. In-service Training course given to the U.S. Marshals Tactical Tracking Unit, Ft. Richardson, Alaska, April 2001.
- Cunningham, TY (2001). *Improvised Explosive Devices, Anti-Tracking Reduction and Counter Tracking*. In-service training course given to the U.S. Marshals Tactical Tracking Unit, Ft. Richardson, Alaska, March 2001.
- Cunningham, TY (2002). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 2002.
- Cunningham, TY (2001). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 2001.
- Phillips, W., Cunningham, TY, Otte, M., Guinn, K. (1998). *Basic tracking principles*. Invited presentation at Oxygen Television Network, On-location, Anchorage, AK, September 2000.
- Cunningham, TY (2000). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 2000.
- Cunningham, TY, & Guinn, K. (2000). *Surveillance/observation, hides, use of optics-8 hours*. In-service training course given to the U.S. Marshals Tactical Tracking Unit, Ft. Richardson, Alaska, June 2000.
- Cunningham, TY (2000). *Scout tracking basic course-56 hours*. In-service training course given to the U.S. Marshals Tactical Tracking Unit, Susitna, AK, May 2000.
- Cunningham, Ty (1999). *Office Safety & personal protection*. Invited lecture at U.S. District Court, Federal Judiciary & Court Personnel, Anchorage, AK, August 1999.
- Cunningham, Ty (1999). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1999.
- Cunningham, Ty (1998). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1998.
- Cunningham, Ty (1998). *Officer Safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1998.

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- Cunningham, Ty & Irving, V. (1998). *Office Safety & personal protection*. Invited seminar for State of Alaska Probation and Parole, May 1998.
- Hardin, J., Cunningham, Ty, & Others. (1998). *SAR Tracking Specialist Course-24 Hours*. Invited course for Search & Rescue Groups around Henry Coe State Park, California, August 1998.
- Hardin, J., Larue, R., Cunningham, Ty, & Others. (1998). *Basic combat man-tracking*. Invited presentation at U.S. Army 7th Special Forces, Ft. Bragg, N.C., June 1998.
- Hardin, J., Cunningham, Ty, & Others. (1997). *Basic Tracking Course*. Invited course for Alaskan Law Enforcement & SAR Groups, Camp Denali, AK, July 1997.
- Cunningham, Ty (1997). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1997.
- Hardin, J., Cunningham, Ty, & Others. (1997). *Basic Tracking Course*. Invited course for Idaho Law Enforcement & SAR Groups, McCall, Idaho, June 1997.
- Cunningham, Ty (1997). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1997.
- Hardin, J., Cunningham, Ty, & Others. (1997). *Basic Tracking Course*. Invited course for Washington Law Enforcement & SAR Groups, Washington County, WA, April 1997.
- Hardin, J., Cunningham, Ty, & Others. (1997). *Basic Tracking Course*. Invited course for Idaho Law Enforcement & SAR Groups, Blaine County, Idaho, March 1997.
- Cunningham, Ty (1996). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1996.
- Cunningham, Ty (1996). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1996.
- Cunningham, Ty (1995). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1995.
- Cunningham, Ty (1995). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1995.

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- Cunningham, Ty (1994). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1994.
- Cunningham, Ty (1994). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1994.
- Cunningham, Ty (1993). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1993.
- Cunningham, Ty (1993). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1993.
- Cunningham, Ty (1992). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1992.
- Cunningham, Ty (1992). *Officer safety and field survival*. Invited seminar at U.S. Probation & Pretrial Services, Anchorage, AK, May 1992.
- Cunningham, Ty (1991). *Police ju-jitsu, use-of-force, defensive tactics, expandable baton & officer survival*. Invited in-service seminar at United States Marshals Service, District of Alaska, July 1991.

International:

- Bull-Kjolaas, T., Ebeltoft, L., Cunningham, T. (2022). *Indigenous People*, Invited speech at conference Rising with Culture. Attended by the Ambassador of Slovakia to Norway and Iceland, Honorable Roman Buzek. Huser Gard, Norway, 2022
- Cunningham, Ty (2004). *The tracker's triangle*. Invited lecture at the International Society of Professional Trackers Symposium, Appomattox, VA, October 2004.
- Cunningham, Ty (1998). *Professional neutrality in analytical application of the science of tracking*. Invited lecture at the International Society of Professional Trackers Symposium, Petaluma, CA, October 1998.

PERIODICALS PUBLISHED

- Alaska Martial Art & Fitness Journal, Vol. 2, No. 1, Spring 1994
- Alaska Martial Art & Fitness Journal, Vol. 1, No. 4, Winter 1993
- Alaska Martial Art & Fitness Journal, Vol. 1, No. 3, Fall 1993

BOOKS & PAPERS REVIEWED-TECHNICAL ADVISOR

- Cameron, M., Breakneck, 2023
- Cameron, M., Red Winter, 2022

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- Cameron, M., Cold Snap, 2022
- Cameron, M., Tom Clancy's Chain of Command, 2021
- Cameron, M., Bone Rattle, 2021
- Cameron, M., Tom Clancy's Shadow of the Dragon, 2020
- Cameron, M., Stone Cross, 2020
- Cameron, M., Tom Clancy's Code of Honor, 2019
- Cameron, M., Active Measures, 2019
- Cameron, M., Open Carry, 2019
- Cameron, M., Tom Clancy's Oath of Office, 2018
- Cameron, M., The Triple Frontier, 2018
- Cameron, M., Tom Clancy's Power and Empire, 2017
- Cameron, M., Dead Drop, 2017
- Henry, M., To Hell and Beyond, 2017
- Cameron, M., Field of Fire, 2016
- Cameron, M., Brute Force, 2016
- Alwood, K., Behavioral Programming: The Manipulation of Social Interaction, 2015
- Cameron, M., Day Zero, 2015
- Cameron, M., Time of Attack, 2014
- Cameron, M., State of Emergency, 2013
- Cameron, M., Act of Terror, 2012
- Cameron, M., National Security, 2011
- Hutchison, A., Tradition of Murder, 2011
- Song, T., Song of the Track: Adventures and Instructions in the Old Native Way of Tracking, 2010
- Speiden, R., Foundations for awareness, Signcutting and Tracking. VA: Natural Awareness Publishing, 2008
- Henry, M., The Hell Riders. NY: Pinnacle Books, 2004
- Henry, M., Hard Road to Heaven. NY: Pinnacle Books, 2002
- Otte, M., Hide & Seek. AK: Publication Consultants, 1999
- Otte, M., Pray for Justice. AK: Publication Consultants, 1998

NATIONAL GOVERNMENT TRACKERS CERTIFIED

- Over 100