

Kristofer S. Lyon

Curriculum Vitae

ICMDE | 3CE | CTSME | CCPA

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308 E Burlington Street, #156, Iowa City, IA 52240

EDUCATION

M.S. in Digital Forensic Science

Expected: August 2027

Champlain College, Burlington, VT

B.A. in Political Science, with Honors

Conferred: May 2013

Lewis & Clark College, Portland, OR

EMPLOYMENT

Founder | Principal Consultant

May 2025 – Present

Lyon Digital Forensics

- Analyze digital evidence from a wide range of technologies, specializing in geolocation data.
- Expert in GPS, forensic cell site analysis, and radio frequency surveys.

Digital Forensics Consultant

February 2025 – Present

Manzo Digital Forensics (MDF)

- Analyze digital evidence from a wide range of devices, including mobile phones, computers, and GPS equipment.
- Process and plot geo-location data from call detail records.
- Collaborate with legal teams, prepare detailed forensic reports, and provide expert testimony in court.

Investigator II | Digital Forensics Specialist

June 2018 – Present

Office of the State Public Defender, Iowa

- Founded a DOJ grant-funded statewide program assisting attorneys with complex technical evidence relating to device extractions, cellular records, and other digital forensic data.
- Perform social media/OSINT investigations; extract and parse data from mobile devices and online accounts; assess and map geolocation data.

Mobile Crisis Counselor | Supervisor on Call

August 2021 – January 2024

CommUnity Crisis Services and Food Bank, Iowa City, Iowa

- Responded on call to individuals experiencing mental health crises; promoted to on-call supervisor in October 2021.

Police Officer

May 2018 – June 2018

West Liberty Police Department, West Liberty, Iowa

- Served part-time as a uniformed sworn peace officer for special events and regular patrol shifts.

Chief of Police

December 2014 – March 2018

University Heights Police Department, University Heights, Iowa

- Joined as reserve officer; promoted through patrol officer and sergeant before appointment as chief of police in August 2017.
- Updated department technology, policies, and processes: video retention, network security, mobile data/mapping, evidence chain of custody, CJIS compliance, and HR/scheduling systems.

IT Specialist | Monitoring Technician

June 2005 – October 2013

Partnership for the Umpqua Rivers, Roseburg, Oregon

- Provided IT support, network management, software development, and web design; wrote scientific reports and grant applications.
- Developed scientific software for IDEXX Most Probable Number calculations (Windows and Windows Mobile), distributed by Oregon State University.
- Conducted water quality monitoring and scientific research; promoted to supervisory role in 2013.

Network Administration | IT Apprenticeship

March 2002 – July 2008

Days Creek Charter School, Days Creek, Oregon

- Studied network management, OS/IT support, C++ and Visual Basic; supported large Windows networks.

PUBLICATIONS

Lyon, K. (in revision). Forensic implications of Microsoft Windows Recall. *Forensic Science International*. Manuscript submitted for publication (Manuscript No. FSIR-D-26-00121); revisions requested.

RESEARCH EXPERIENCE

Research Thesis

Fall 2012 – Spring 2013

Department of Political Science, Lewis & Clark College, Portland, OR

- Designed and performed grant-funded original research on police use of force at public protests.

Undergraduate Research Assistant

Summer 2011 – Summer 2012

Department of Political Science, Lewis & Clark College, Portland, OR

- Assisted with legal and quantitative research on prosecutorial discretion and gender in First Amendment cases.

INVITED LECTURES & CONFERENCE PRESENTATIONS

Lyon, K. (June 2026). Business Records and Digital Forensics. *State Public Defender, Iowa*.

Lyon, K. (March 2026). Understanding Sources of Geolocation Data. *NAPD 2026 National Conference*.

Lyon, K. (January 2026). Digital Forensics and Criminal Law. *University of Iowa School of Law*.

Lyon, K. (February 2023). Mobile Digital Forensics. *University of Iowa School of Law*.

Lyon, K. (March 2022). Legal Careers. *Lewis & Clark College, Department of Political Science*.

Lyon, K. (February 2022). Mobile Digital Forensics. *University of Iowa School of Law*.

Lyon, K. (May 2013). Advanced Digital Photography. *Lewis & Clark College, College Outdoors*.

Lyon, K. (Multiple Dates). Digital Forensics and Cellular Networks. *State Public Defender, Iowa*.

EXPERT TESTIMONY - JURY TRIALS

State of Iowa v. Jacob Hamilton — FECR265437 May 22, 2026
Waterloo, Iowa
Murder 1st degree jury trial. Testified regarding mobile device extractions and call logs.

State of Iowa v. Andrew Shaw — FECR143844 August 19, 2025
Linn County, Iowa
Murder 1st degree jury trial. Testified regarding link analysis and Snapchat data.

State of Iowa v. Karina Cooper — FECR018424 July 11, 2025
Tama County, Iowa
Murder 1st degree jury trial. Testified regarding mobile device extractions and Snapchat data.

State of Iowa v. Lakendrick Mosley — FECR365405 August 2, 2023
Linn County, Iowa
Pre-trial limine motion hearing regarding accuracy of time-of-flight data in cellular networks.

State of Iowa v. Stephen Keyes — FECR016631 July 12, 2023
Linn County, Iowa
Provided affidavit as expert witness in appeal submitted by Wrongful Convictions.

State of Iowa v. Isaiah Duffield — FECR071613 March 6, 2023
Fayette County, Iowa
Jury trial. Testified regarding extraction and parsing of a mobile device.

State of Iowa v. Alexander Jackson — FECR141034 January 23, 2023
Linn County, Iowa
Murder 1st Degree jury trial. Testified regarding iOS application logs.

State of Iowa v. Mark Marsh — FECR043798 August 13, 2021
Dallas County, Iowa
Murder 1st degree jury trial, testified on geolocation data; created map from Life360 data.

State of Iowa v. Andre Richardson — FECR131868 October 25, 2019
Linn County, Iowa
Pre-trial hearing regarding social media evidence.

EXPERT TESTIMONY - DEPOSITIONS

State of Iowa v. Antavis Watson — FECR145963 April 3, 2026
Johnson County, Iowa

State of Iowa v. Leigh Laz LePon — PCCV050883 February 23, 2026
Story County, Iowa

State of Iowa v. Abraham Padilla — JVJV002090 September 10, 2025
Greene County, Iowa

State of Iowa v. Michael Postell — FECR083114 October 15, 2024
Johnson County, Iowa

State of Iowa v. Alexander Voudhivong — FECR138152 March 11, 2024

Johnson County, Iowa

State of Iowa v. Alexander Jackson — FECR141034
Linn County, Iowa

January 23, 2023

State of Iowa v. Mark Marsh — FECR043798
Dallas County, Iowa

July 26, 2021

State of Iowa v. Patrick Bland — FECR126214
Johnson County, Iowa

June 23, 2021

TRAINING, LICENSES, & CERTIFICATIONS

Digital Forensics

DFS-500 Digital Forensic Science — Champlain College	Fall 2025
DF203 Intermediate Digital Forensic Analysis: Forensic Video Analysis — NW3C	March 2026
DF310 Advanced Digital Forensic Analysis: Windows — NW3C	January 2025
IACIS Certified Mobile Device Examiner (ICMDE) — IACIS	February 2024
Certified Cyber Crime Examiner — NW3C	July 2023
CI103 Advertising Identifiers — NW3C	April 2022
DF330 Advanced Digital Forensic Analysis — NW3C	June 2021
DF205 Intermediate Digital Forensic Analysis — NW3C	May 2021
SQLite Survival Series — NW3C	April 2021
Actionable Intelligence: The OSINT Way — JAG Investigations	February 2021
Using Geo-location OSINT Data to Further Investigations — OSINT Combine	November 2020
Cellebrite Analytics Desktop (AD)	August 2020
Cellebrite Certified Physical Analyst (CCPA)	August 2020
Cellebrite Certified Operator (CCO)	August 2020
Cellebrite Mobile Forensics Fundamentals (CMFF)	August 2020
Autopsy Basics and Hands On — Basis Technology	May 2020
Social Media Investigations — Midwest Gang Investigators Association	March 2017

Cellular Radio Forensics & Location Analysis

Technician Class Amateur Radio License - FRN 0038320669 — FCC	June 2026
QGIS Certification — BayGeo / University of San Francisco	June 2026
Principles of Satellite Location and Navigation — IEEE ComSoc / Bensky	June 2026
Forensic Cellular Site Survey and Analysis — NW3C / Forensic Analytics	October 2025
CellHawk Basic Certification — Hawks Consulting	March 2025
Wireless Positioning and Location — IEEE ComSoc / Bensky	February 2025
RF Engineering Fundamentals — Rohde & Schwarz	November 2024
How Geo-Signals Can Aid in Investigations — NW3C	April 2021
Certified Telecommunications Subject Matter Expert (CTSME) — Teracom	Fall 2020
Certified Wireless Analyst (CWA) — Teracom Training Institute	Fall 2020
Beyond the Map: CDR Analysis — Hawk Analytics	September 2020
Carrier Breakdowns (Various) — Hawk Analytics	Summer 2020
Call Detail Records: Best Practices for Legal Requests — Hawk Analytics	January 2020
Introduction to GIS Applications — Oregon State University	June 2007

Computer Science

Data Structures and Algorithms in Python — UCSD Extension	Summer 2025
Computer Science I: Fundamentals — University of Iowa	Summer 2024

Discrete Mathematics for Computer Science — UCSD Extension	Summer 2023
Object Oriented Programming with Python — Udemy	April 2023
6.00.1x: Introduction to CompSci and Programming Using Python — MIT (edX)	Summer 2021
Intermediate R Programming — DataCamp	July 2020
Introduction to R Programming — DataCamp	April 2019

Law Enforcement, Criminal Law, and Firearms

Cognitive Bias in Forensic Analysis — CSAFE	November 2025
Ins and Outs of Jury Selection — NITA	April 2023
Putting Science in Forensic Science Symposium — CIFS	June 2019
Certified Field Training Officer — NAFTO	December 2017
Intermediate ICS-300 for Expanding Incidents — Texas A&M	November 2017
Incident Command System (ICS) Forms Review — Texas A&M	October 2017
Pepperball Less-Lethal VKS Operator (Lapsed)	September 2017
Sexual Assault Investigator Training — Iowa DCI	June 2017
Certified Open Sight Rifle Instructor (Lapsed) — ILEA	May 2017
Courtroom Demeanor and Testimony — Matt Wilber & Associates	April 2016
AR-15/M4 Armorer — Defensive EDGE and SLR15 Rifles	November 2016
Glock Certified Armorer (Lapsed)	October 2016
Patrol Officer Response to Drugs — MCTC	September 2016
Prescription Abuse Training — MCTC	September 2016
Certified Firearms Instructor (Lapsed) — ILEA	August 2016
Use of Force Studies and Policy Training — Force Science Institute	February 2016
Certified Peace Officer (Lapsed) — Cedar Rapids Regional Academy	Fall–Winter 2015
Prescription Drug Crimes Training — MCTC	April 2015
Advanced Roadside Impaired Driving Enforcement (ARIDE)	March 2015

Mental Health and Crisis Intervention

Traumatic Brain Injury Screening — Community NeuroRehab	June 2026
Trauma Informed Care Certification — Community Resilience Initiative	May 2022
Crisis Intervention Training — CommUnity Mobile Crisis Response	Sept.–Dec. 2021
Providing Effective Services to Young Men and Boys of Color — Safe Horizon	December 2021
Effective Suicide Intervention Using Telehealth	November 2021
Youth Suicide Prevention Training	October 2021
Applied Suicide Intervention Skills Training (ASIST) — Living Works	October 2021
Counseling on Access to Lethal Means (CALM) — Zero Suicide Institute	September 2021
Adverse Childhood Events (ACEs) Training	September 2021
The Role of Race and Trauma	September 2021
Crisis Intervention Training — Johnson County, Iowa	March 2017

HONORS & AWARDS

Professional

Investigator of the Year — <i>Public Defenders Association of Iowa</i>	June 2021
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Academic

Departmental Honors — <i>Department of Political Science, Lewis & Clark College</i>	May 2013
Nominee, Rena J. Ratte Academic Award — <i>Lewis & Clark College</i>	May 2013
First Citizens Student of the Year — <i>Lions Club, Canyonville, OR</i>	May 2008

MEMBERSHIPS & ASSOCIATIONS

Institute of Electrical and Electronics Engineers (IEEE) #99120004	2021 – Present
International Association of Computer Investigative Specialists (IACIS) #51268	2019 – Present
Public Defender Association of Iowa (PDAI) — Board Member	2020 – 2025
International Association of Chiefs of Police	2017 – 2018