

CV OF DR. RONALD P. LOUI, 6/17/2026

AGE 64

Senior AI and Data Science Academic with Decades of Applied Sponsored Work and Consulting

CURRENT

Adjunct Full Professor of Computer Science and Data Science (part-time)

Case Institute of Technology (Engineering School)

Case Western Reserve University (Cleveland, Ohio)

Member of the AI Task Force of Vice Provost for Innovation

TEACHING:

Linux Scripting Tools (8x)

AI Seminar: Current Issues and Problem Solving (6x)

Operating Systems (14x)

Software User Experience for Designers (new)

Data Wrangling (2x)

RESEARCH:

with undergraduate(s)

AI reliability and trust, visualization of reference class samples

reliability of cyber-physical sensor APIs

2026 TALK:

at Weatherhead School of Management (Business School)

Corporate AI Symposium

An Innovative Tool for Deciding when AI Predictions Can Be Trusted, Or Not

2025 PAPER:

Adding to the EU AI Liability Directive: Degree of Autonomy, Chain of Confidence, Inherent Flaws of Indecent Induction, and Mandatory Insurance (Law of AI, 2nd Ed.)

PAST

Tenured Associate Professor of CS/CSE (full-time)

Sever Institute (Engineering School)

Washington University (St. Louis, MO)

Speaker of the Faculty of Engineering

Member of the Executive Committee School of Engineering

Faculty Representative to Board of Trustees Undergraduate Council

Chancellor's Day Speaker on AI and Law

Affiliated with Systems Science, Legal Studies, Medical Informatics

TEACHING:

artificial intelligence lab

graduate entrepreneurship with AI

software engineering capstone

computing tools

web design

classic artificial intelligence

theory and automata

RESEARCH:

NSF (AI foundations and innovative research)

AFRL (high speed AI co-design for intelligence triage with GV for SAIC for NSA for IARPA)

SUPERVISION:

doctoral theses on

AI reasoning (Emeritus Prof in Argentina 23 PhD descendants)

Neural nets (Retired Prof in Israel), and

Genetic algorithms with Bayesian analytics (founder of McDonald's AI Lab)

undergraduate theses and NSF SURA program (google #3, CS profs at top-20 schools)

PATENT:

streaming AI/ML classification with FPGAs

Tenure-track Assistant Professor of Computer Science

Arts and Science School and NSA Center for Excellence in Computer Security
University of Illinois (Springfield, IL)

Master's students' Tech Brainstorming and Development Club
active in entrepreneurial activity (with Urbana)

TEACHING:

linux/systems programming

AI/Robo ethics

Master's research projects

cyberwar

computer surveillance

online teaching national leader/pioneer

RESEARCH:

medical records innovations

input/workflow

annotation for flexible ontologies

error detection

ransomware prevention

audio monitoring of servers

voice UI for voice AI

exfiltration and data loss prevention

technical term keyword extraction with zero training

cyber pearl harbor mitigation

information warfare using cyber warfare

innovative risk modeling

scientific theory formation vs AI vs legal theory formation

defeasible reasoning in legal reasoning

PATENT:

disclosures for securing servers from anomalies

Founding relationships with healthcare/medical records company in Austin, TX, and
disinformation detection/media narratives company in LA, CA

CONSULTING:

Cyrcorp (major AI firm, Austin, TX) contracts

for Cleveland Clinic (advanced AI retrieval and medical records)

for a leading international petroleum company (visualization and controls)

and internal tools (visualization of inference and web scraping data)

McDonnell-Douglas (F/A-18 SuperHornet, E/A-18 Growler sensor fusion)

SWBell TRI (AI for negotiation)

Xerox (Palo Alto and Rochester, device failure prediction)

EDUCATION

STANFORD postdoctoral study in Cognitive Science, hosted by SRI (research laboratory), CS, and CSLI

ROCHESTER MSc in Computer Science and PhD in AI, Philosophy, and Cognitive Science

Dissertation: *Theory and Computation of Uncertain Inference and Decision*

HARVARD AB in Applied Mathematics (Decision and Control / Operations Research)

Thesis: *Optimal Paths in Graphs with Stochastic or Multidimensional Paths* (ACM Award)

CONTACT

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