

**Michael A. Covington, Ph.D.** [mcovington@computer.org](mailto:mcovington@computer.org) 706-207-4262

Consultant

Covington Innovations

285 Saint George Drive

Athens, Georgia 30606 U.S.A.

Senior Research Scientist Emeritus and co-founder

Institute for Artificial Intelligence

The University of Georgia

Senior Member, IEEE

Listed in *Who's Who in the World* and related publications

## **Position sought**

If you need a senior academic AI researcher on your team but don't want to hire one full-time, I am what you are looking for.

I'm seeking fractional or consulting work involving artificial intelligence, with a particular interest in AI ethics, risks, and governance; natural language processing and psycholinguistics; and neurosymbolic AI (blending neural and classic techniques).

I am located in Athens, Georgia, and well set up for remote work and video conferencing.

## **Recent projects**

FormFree, Inc., Athens, Georgia

Application of artificial intelligence to credit scoring and other financial domains

Strategic Analysis Enterprises, Inc., Williamsburg, Virginia

Software to extract information and sentiment from news media and social media

North Shore Health System, Long Island, New York

Computer-aided linguistic analysis of human speech for a psychiatric research project

Confidential client, U.S. east coast

Application of machine learning to classification of financial transaction descriptions

Confidential client, U.S. west coast

Development and refinement of patent claims

GlaxoSmithKline PLC, Cambridge, England

Confidential consulting project in the area of psycholinguistics

Multiple clients

Evaluation of natural language software for possible investment

## Degrees

B.A. 1977 summa cum laude, co-valedictorian, University of Georgia.

M.Phil. 1978, Cambridge University.

Ph.D. 1982, Yale University.

## Research areas

Computer and AI ethics and risks

Natural language understanding

Information extraction and retrieval

Computational psycholinguistics

Logic modeling of electronic commerce

## Books and articles (selected)

all authored by Michael A. Covington (alone) unless indicated

*Prolog Programming in Depth*, by Michael A. Covington, D. Nute, and A. Vellino. Chicago: Scott, Foresman, 1988. Second edition published by Prentice-Hall, 1997.

*Natural Language Processing for Prolog Programmers*. Prentice-Hall, 1993.

“On designing a language for electronic commerce.” *International Journal of Electronic Commerce* 1.4:31–47, 1997.

“Electronics.” Invited contribution to *Encyclopaedia Britannica Yearbook of Science and the Future*, 2000.

“Defeasible Logic on an Embedded Microcontroller.” *Applied Intelligence* 13:259–264 (2000).

“A fundamental algorithm for dependency parsing.” *Proceedings*, SEACM 2001. (Widely cited).

“The technological relevance of natural language pragmatics.” In *Cognitive Systems: Human Cognitive Models in Systems Design*, ed. by Michael L. Bernard and J. Chris Forsythe. Hillsdale, N.J.: Erlbaum, 2005.

“Schizophrenia and the structure of language: the linguist’s view,” by Michael A. Covington, C. Brown, C. He; L. Naçi, B. Fjordbak, J. Brown. *Schizophrenia Research* 77(1):85–98 (2005).

“Sentiment and discourse analysis: theory, extraction, and application,” by S. M. Shellman, Michael A. Covington, and M. Zangrilli. *Socio-Cultural Analysis with the Reconnaissance, Surveillance, and Intelligence Paradigm*, ed. by Charles Ehlschlaeger, pp. 66–82. U.S. Department of Defense, 2014.

*Dictionary of Computer and Internet Terms*, by Douglas Downing, Michael A. Covington, et al. Woodbury, New York: Barron’s Educational Series, 12 editions, latest in 2018.

*From Hackers to Chatbots: A Quick Tour of Computer and AI Ethics*. Wisdom/Work, 2025.