CURRICULUM VITAE

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Michael A. Covington

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1. Academic History

Michael A. Covington

Present rank: Senior Research Scientist

Adjunct Professor of Computer Science

Administrative title: Associate Director, Institute for Artificial Intelligence

Graduate Faculty status: Full member since 1990

Highest degree: Ph.D., Yale University, 1982

Positions held: *The University of Georgia:*

Senior Research Scientist, since 2000. Associate Research Scientist, 1990–2000. Assistant Research Scientist, 1986–90.

Research Associate, 1984–86.

Affiliations with other units of The University of Georgia:

Senior Research Fellow, VIPCAT (Terrorism Project), 2007–2008.

Affiliated with the Neuroscience Program, since 2006. Member of the Engineering Faculty, since 2002.

Adjunct Professor of Computer Science, since 2001.

Adjunct Associate Professor of Computer Science, 1996–2001. Adjunct Assistant Professor of Computer Science, 1988–1996.

Member of the Linguistics Faculty, since 1994.

Adjunct Member of the Linguistics Faculty, 1993–1994.

Adjunct Assistant Professor of Linguistics, 1988–1992. Fellow, Institute of Behavioral Research, since 1988.

University of Southern California:

Postdoctoral Fellow in Linguistics, 1982–84.

Yale University:

Teaching Fellow, 1981.

Other employment: *University of Tübingen* (West Germany).

Research associate (Mitarbeiter), Seminar für natürlich-sprachliche

Systeme, November 1987.

(Associated with LILOG Project, IBM Stuttgart.)

Personal data: Born 14 September 1957, Valdosta, Georgia.

U.S. citizen.

Married to Melody Mauldin Covington since 1982.

Two children, Catherine (born 1985) and Sharon (born 1988).

Degrees: B.A. 1977 summa cum laude, University of Georgia.

M.Phil. 1978, Cambridge University.

Ph.D. 1982, Yale University.

Languages: Full reading knowledge of Latin, Greek, French, Spanish, German.

Working knowledge of Italian, Biblical Hebrew.

Programming languages: Prolog, LISP, Pascal, Delphi, C, C++, C#, Java, Python, PL/I,

FORTRAN, BASIC, 8086/8088/80286 assembly, PIC assembly, AVR

assembly, 8051 assembly, 68HC11 assembly, others.

2. Resident Instruction

Courses taught regularly: CSCI/ARTI 4540/6540

Artificial Intelligence Programming Techniques

(Symbolic Programming)

Every 2 years

CSCI/LING 8570

Natural Language Processing Techniques

Every year LING 6570

Applied Natural Language Processing As needed, formerly every 2 years

ENGR 4250

Advanced Microcontrollers As needed in 2005 and 2006

3. Scholarly Activities

3a. **Publications**

- * = publications with stringent editorial review
- ** = invited publications indicating scholarly recognition

Michael A. Covington is sole author of all publications unless otherwise indicated.

Books authored:

- * Syntactic theory in the High Middle Ages: modistic models of sentence structure. Dissertation, Ph.D., Yale University, 1982. Published by Cambridge University Press, 1984. Reprinted 2009.
- * *Astrophotography for the amateur.* Cambridge University Press, 1985. Revised edition, 1991. "Second" edition, 1999.

Dictionary of computer terms, by Douglas Downing and Michael A. Covington. Woodbury, New York: Barron's Educational Series, 1986. Second edition, 1989.

Third edition, 1992.

Fourth edition, adding co-author Melody M. Covington, 1995. Fifth edition, retitled *Dictionary of computer and Internet terms*, 1996. Sixth edition, 1998.

Seventh edition, 2000.

Eighth edition, 2003.

Ninth edition, 2006.

Tenth edition, adding co-author Catherine Anne Covington, 2009. Eleventh edition, renaming co-author to Catherine Anne Barrett and adding co-author Sharon Covington, 2012.

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

Computer science study keys. Barron's Educational Series, 1991.

* Natural language processing for Prolog programmers. Prentice-Hall, 1993.

The Cambridge eclipse photography guide, by Michael A. Covington, Jay M. Pasachoff, and Fred Espenak, Cambridge University Press, 1993.

- * Celestial objects for modern telescopes. Cambridge University Press, 2003.
- * *How to use a computerized telescope.* Cambridge University Press, 2003.
- * Digital SLR astrophotography. Cambridge University Press, 2007.

Book chapters:

- ** Prospects for automated reasoning on the CYBERPLUS. Proceedings from the 1985 Parallel Processing Executive Seminar, ed. Martin W. Ferrante. Minneapolis: Control Data Corporation, 1986.
- ** Universal grammar in the Middle Ages. In *Studies in the history of linguistic science: a festschrift for R. H. Robins,* ed. F. R. Palmer and Theodora Bynon, pp. 23–42. Cambridge University Press, 1986.
- ** Medieval scholastic grammar. Oxford International Encyclopedia of Linguistics. Oxford University Press, 1991.

- ** C. S. Lewis as a Student of Words. In: P. J. Schakel and C. A. Huttar, eds., *Word and Story in C. S. Lewis*, Columbia, Mo.: U. of Missouri Press, 1991, pp. 29–41.
- * A dependency parser for variable-word-order languages. *Computer assisted modeling on the IBM 3090: The 1989 IBM contest prize papers*, ed. Keith R. Billingsley, Hilton U. Brown III, and Ed Derohanes, vol. 2, 799–845. Athens, Georgia: Baldwin Press, 1992.
- * GB theory as dependency grammar. Proceedings, International Congress of Linguists, Québec, 1992.
- * Toward a new type of language for electronic commerce. Proceedings, Hawaii International Conference on System Sciences, 1996.
- * Speech acts in electronic commerce, with special reference to KQML and ANSI X.12. Proceedings, Hawaii International Conference on System Sciences, 1997.
- * Defeasible logic on an embedded microcontroller. Proceedings, IEA-AIE, 1997.
- * Alignment of multiple languages for historical comparison. Proceedings, ACL/COLING-98, Montréal.

A 700-year-old argument for a syntactic transformation. Published in the online festschrift for Noam Chomsky's 70th birthday, organized by MIT Press, at http://mitpress.mit.edu/chomskydisc/Covington.html. (No printed edition.)

- ** Electronics. Invited contribution to *Encyclopaedia Britannica Yearbook of Science and the Future*, 2000.
- * A fundamental algorithm for dependency parsing. Proceedings, 39th Annual Southeast ACM Conference (ACMSE), Athens, Georgia, 2001.
- ** Scientia sermocinalis: Grammar in medieval classifications of the sciences. In *Flores Grammaticæ: Essays in Memory of Vivien Law,* ed. by Nicola McLelland and Andrew Linn, pp. 49-54. Münster: Nodus, 2005.
- ** 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.
- * Uchiyama, Hajime; Covington, Michael A.; and Potter, W. D. (2008) Vibrotactile glove guidance for semi-autonomous wheelchair operations. Proceedings, 46th Annual SCM Southeast Conference (ACMSE), Auburn, Alabama.
- ** Uchiyama, H., W. D. Potter, M. A. Covington, J. Tarver, and R. Eunice, "Perceptual Navigation for Semi-Autonomous Wheelchair

Operations," in Yoshihiko Takahashi, ed., *Service Robotics*, pp. 71–94. Vienna, Austria: I-Tech Education and Publishing, 2008.

Thai, C. N.; Covington, M. A.; Haidekker, M. A.; and McCully, K. (2008) Evaluation of body sensor networks for instruction in embedded systems and wireless sensor networks. Proceedings, 2008 ASABE Annual International Meeting, Providence, Rhode Island.

- * Idea density: a potentially useful characteristic of retrieved documents. Proceedings, IEEE SoutheastCon 2009.
- * How to make a lumpy random-number generator. Proceedings, 4th International Workshop on Plan 9, 2009.

Monograph:

* Evidence for lexicalism: a critical review. Bloomington, Indiana: Indiana University Linguistics Club, 1981.

Journal articles:

- * The syntactic theory of Thomas of Erfurt. *Linguistics* 17:465–496 (new series), 1979.
- * Albert Schultens on language relationship. *Linguistics* 17:707–708 (new series), 1979.
- * De modis significandi: introductio brevis in grammaticam speculativam medii aevi. *Latinitas* 28:185–191, 1980.
- * Computer terminology: words for new meanings. *American Speech* 56:64–71, 1981.
- * Antialiasing on the IBM PS/2 VGA by treating color bits as subpixels. *Journal of Microcomputer Applications* 12 (1989), 253–257.
- * Parsing discontinuous constituents in dependency grammar. *Computational Linguistics* 16:234–236 (1990).
- * Unification–based diagnosis of language learners' syntax errors, by M. Covington and K. Weinrich. *Literary and Linguistic Computing* 6 (1991) 149–154. (Co-author is student of candidate.)
- * Efficient Prolog: a practical tutorial. *Artificial Intelligence Review* 5 (1991) 273–287.
- * The Master of Science in Artificial Intelligence program at the University of Georgia, by W. D. Potter, D. E. Nute, and M. A. Covington. *Expert Systems with Applications* 4:185–193 (1992).
- * Computer languages in type. *Journal of Scholarly Publishing* 26.1:34–41 (1994).
- * Design and implementation of a campus computer ethics policy. *Internet Research* 5.4 (1995) 31–41.
- * An algorithm to align words for historical comparison. *Computational Linguistics* 22:481–496 (1996).
- * Natural language plurals in logic programming queries. *Applied Artificial Intelligence* 11:219–234 (1996).

- ** On designing a language for electronic commerce. *International Journal of Electronic Commerce* 1.4:31–47 (1997).
- ** Speech acts, electronic commerce, and KQML. *Decision Support Systems* 22:203-211 (1998).
- * Defeasible Logic on an embedded microcontroller. *Applied Intelligence* 13:259–264 (2000).
- * Logical control of an elevator with defeasible logic. *IEEE Transactions on Automatic Control* 45:1347-1349.
- * The number of distinct alignments of two strings. *Journal of Quantitative Linguistics* 11:173–182 (2004).
- * Covington, Michael A.; Brown, Cati; He, Congzhou; Naçi, Lorina; Fjordbak, Bess Sirmon; Brown, John (2005) Schizophrenia and the structure of language: the linguist's view. *Schizophrenia Research* 77(1):85-98.
- * Covington, Michael A.; Riedel, Wim J.; Brown, Cati; He, Congzhou; Morris, Eric; Weinstein, Sara; Semple, James; and Brown, John (2007) Does ketamine mimic aspects of schizophrenic speech? *Journal of Psychopharmacology* 21:338–346.
- * Brown, Cati; Snodgrass, Tony; Kemper, Susan J.; Herman, Ruth; and Covington, Michael A. (2008) Automatic measurement of propositional idea density from part-of-speech tagging. *Behavior Research Methods* 40(2):540–545.
- * Covington, Michael A.; Riedel, Wim J.; Brown, Cati; He, Congzhou; Morris, Eric; Weinstein, Sara; Semple, James; and Brown, John (2009) Ketamine and schizophrenic speech: more difference than originally reported. (Letter.) *Journal of Psychopharmacology* 23 (1) 111-112.
- * Covington, Michael A., and McFall, Joe D. (2010) Cutting the Gordian knot: The moving-average type-token ratio (MATTR). *Journal of Quantitative Linguistics* 17.2:94–100.

Charles Hollingsworth, Stefaan Van Liefferinge, Rebecca A. Smith, Michael A. Covington, and Walter D. Potter (2011) The ARC Project: Creating logical models of Gothic cathedrals using natural language processing. Proceedings, 5th ACL-HLT Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities, pp. 63-68.

Stefaan Van Liefferinge, Charles Hollingsworth, Rebecca A. Smith, Michael A. Covington, and Walter D. Potter. Artificial Intelligence Techniques for Understanding Gothic Cathedrals. Proceedings, ICAI 2011.

- * Elvevaag, Brita; Wynn, R.; and Covington, Michael A. (2011) Meaningful confusions and confusing meanings in communication in schizophrenia. *Psychiatry Research* 186:461-464.
- * Erin N. Colbert-White, Michael A. Covington, and Dorothy M. Fragaszy (2011) Social context influences the vocalizations of a

home-raised African Grey parrot (*Psittacus erithacus erithacus*). *Journal of Comparative Psychology* 125:175–184.

* Covington, Michael A.; O'Keefe, R. A.; Bagnara, R.; Wielemaker, J.; and Price, S. (in press) Some coding guidelines for Prolog. *Theory and Practice of Logic Programming*.

Technical reports:

(Highlights and most recent items.)

Covington, Michael A. (1994) GULP 3.1: An extension of Prolog for unification–based grammar. Research Report AI–1994–06, Artificial Intelligence Center, The University of Georgia.

Covington, Michael A.; He, Congzhou; Brown, Cati; Naçi, Lorina; and Brown, John (2006) How complex is that sentence? A proposed revision of the Rosenberg and Abbeduto D-Level Scale. Research Report 2006-01, CASPR Project, Artificial Intelligence Center, The University of Georgia.

Covington, Michael A. (2007) CPIDR 3 User Manual. CASPR Research Report 2007-03 (http://www.ai.uga.edu/caspr), Artificial Intelligence Center, The University of Georgia.

Covington, Michael A. (2007) MATTR User Manual. CASPR Research Report 2007-05 (http://www.ai.uga.edu/caspr), Artificial Intelligence Center, The University of Georgia.

Charles Hollingsworth, Stefaan Van Liefferinge, Rebecca A. Smith, Michael A. Covington, and Walter D. Potter (2011) Progress report on the ARC Project: Creating logical models of Gothic cathedrals. Working paper, The University of Georgia (http://www.ai.uga.edu/arc).

Abstracts:

Brown, Cati; Covington, Michael A.; Semple, James; and Brown, John (2005) Reduced idea density in speech as an indicator of schizophrenia and ketamine intoxication. *Schizophrenia Bulletin* 31:187–188.

He, Congzhou; Covington, Michael A.; Semple, James; and Brown, John (2005) Some linguistic signs of ketamine-induced cognitive impairment. *Schizophrenia Bulletin* 31:511.

He, Congzhou; Weinstein, Sara; and Covington, Michael A. (2007) Using text analysis software in schizophrenia research. *Schizophrenia Bulletin* 33:522.

Book reviews:

Numerous, mainly in *Language*. The following are specially invited reviews of major works:

** Review of K. Hale and S. J. Keyser, eds., *The view from Building 20* (containing Noam Chomsky's famous "minimalist" essay). *Language* 70:802–807 (1994).

** Review of R. Hudson, *English Word Grammar*. *Language* 71:589–591 (1995).

Other publications:

Over 300 articles in popular magazines about computers, electronics, and amateur astronomy, 1984–present.

3b. **Other creative contributions**

Software:

AHED and PrEd, full–screen editors for the IBM PC, used

instructionally at Georgia and distributed as freeware (in the 1980s).

GULP (Graph Unification Logic Programming), natural language processing software package described in several technical reports and used at the Universities of Georgia, Koblenz, Tübingen, and

Zürich.

Hardware: "NOP

"NOPPP" circuit for programming PIC16F84 and related microcontrollers. Cover feature, *Electronics Now* Magazine,

September 1998; subsequently manufactured by Ramsey Electronics

(New York) and Oatley Electronics (Australia).

Art exhibit:

"Moon, Stars, and Galaxies," Georgia Center for Continuing

Education, March 2008.

3c. **Grants received**

(See also "Other services," below, regarding additional contract work.)

University of Maryland.

Subcontract of approximately \$20,000 to improve an automated reasoning system, 2010.

National Science Foundation.

NSF MINERVA Grant No. BCS-0904669 of approximately \$92,000 (to UGA) as part of a multi-institution study of terrorism and conflict processes, 2009–2011.

Strategic Analysis Enterprises, Inc.

Contract of approximately \$65,000 spanning 9 months for research on computer analysis of news reports, 2009.

Strategic Analysis Enterprises, Inc. (subcontracting from DARPA). Contract of approximately \$108,000 spanning 6 months for research on computer analysis of news reports, 2008–2009.

GlaxoSmithKline Plc.

Contract of approximately \$1,400,000 spanning 3 years for research on computational analysis of speech, 2003–2007. (Amended in 2005 because of key personnel leaving GlaxoSmithKline.)

National Science Foundation.

Grant IST-85-02477 to investigate computer modeling of discourse semantics (with Donald Nute), 1985–87 (\$239,181).

Control Data Corporation.

PACER fellowship to implement a logic programming system on a CYBERPLUS multiparallel processor, 1985–87 (\$50,000).

National Science Foundation.

Grant BNS-81-05359 to investigate medieval theories of syntax, 1981–82.

3d. Recognitions and outstanding achievements

Awards: ANBAR Electronic Intelligence.

Citation of Excellence (for paper on KQML), 1999.

Institute of Electrical and Electronic Engineers.

Elected Senior Member, 1996.

IBM Supercomputing Competition.

First prize, humanities and social sciences (\$25,000), with academic

assistance award to University of Georgia (\$10,000).

National Science Foundation. Graduate Fellowship, 1977–80.

Co-valedictorian, University of Georgia, 1977. U. S. President's Australian Science Scholar, 1973.

Recognitions: Listed in *Who's Who in the World*, 2011, 2012.

Listed in Who's Who in America, beginning 2009, through 2012.

Listed in Who's Who in Science and Engineering, beginning 2000,

through 2012.

Listed in Who's Who in the South and Southwest, beginning 1995.

Listed in other similar directories.

3e. Areas in which research is done

Computational psycholinguistics Information retrieval and extraction Logic programming and logic modeling

Microcontroller applications Computer security and ethics

Scientific photography and image processing

3f. Supervision of student research

Theses directed: *M.S. in artificial intelligence:*

Martin Volk, 1988 Kevin Weinrich, 1989 Yih-Shiuan Hu, 1989 William H. Smith, Jr., 1989

Baizheng Li, 1991

Laurel Graham, 1994

Daniel Brown, 1994

Xun Shao, 1995

Mosé Chalom, 1998

Uli Bubenheimer, 1999

Vassilika Deltcheva, 2001

Nelson Rushton, 2001

Lorina Naçi, 2004

Matthew Voss, 2005

Joe McFall, 2007

Jiayun Han, 2009

Colin Nicholson, 2009

David Robinson, in progress

Shayi Zhang, in progress

Charles Hollingsworth, in progress

Master of Applied Mathematical Sciences (M.A.M.S):

Scarlett Vandergrift, 1991

M.A. in English (linguistics specialty):

Salena Sampson, 2005

Ph.D. in linguistics:

Jishen He, 1993

Xilong Chen, 1993

So Young Kwon, 2006

Ph.D. in computer science:

Congzhou He, 2006

Cody Boisclair, 2011

3g. Editorship or editorial board memberships

Contributing editor: *PC Tech Journal* (1985-1987).

PC Techniques (mid-1990s).

Electronics Now (1995-2001).

Reviewer (since 2005) for: Behavior Research Methods

Brain and Language

Cambridge University Press Cognitive Neuropsychiatry

Computational Linguistics

IEA/AIE Conference

IEEE Transactions on Systems, Man, and Cybernetics

International Journal of Computational Methods

Journal of Logic and Computation

Journal of Logic Programming

Journal of Nervous and Mental Disease

National University of Singapore

Neuropsychologia

Historiographia Linguistica

Social Sciences and Humanities Research Council of Canada

Theory and Practice of Logic Programming

Wiley Publishing

Bipolar Disorders

Schizophrenia Research

National Sciences and Engineering Research Council of Canada (NSERC

(This list may not be complete.)

3h. Convention papers and invited presentations

(Complete only for the last 10 years.)

- * = papers with a published counterpart
- ** = invited presentations
- * Toward a new type of language for electronic commerce. Hawaii International Conference on System Sciences, January 1996.
- * Speech acts in electronic commerce, with special reference to KQML and ANSI X.12. Hawaii International Conference on System Sciences, January 1997.
- * Design and implementation of a campus computer security policy. SHARE (IBM mainframe users' group), Atlanta, 1997.
- ** same, invited presentation, Valdosta State University, 1998.
- ** Comparative reconstruction of ancient languages by computer. University of South Carolina, 1997.
- * Defeasible logic on an embedded microcontroller. IEA-AIE (Industrial and Engineering Applications of Artificial Intelligence and Expert Systems), Atlanta, 1997.
- ** same, invited presentation, Cambridge University, 1998.
- ** same, invited presentation, University of Arizona, 1999.
- * Alignment of multiple languages for historical comparison. COLING-98 (International Conference on Computational Linguistics), Montréal, 1998.
- ** same, invited presentation, University of Arizona, 1999.
- ** Natural language pragmatics applied to computing, invited presentation, Cambridge University, 2000.
- * A fundamental algorithm for dependency parsing. SEACM, Athens, Georgia, 2001.
- ** The technological relevance of natural language pragmatics. Invited presentation at Cognitive Systems Conference, sponsored by University of New Mexico and Sandia National Laboratories, Santa Fe, N.M., July 2003.

- * Covington, Michael A.; Brown, Cati; He, Congzhou; Naçi, Lorina; Fjordbak, Bess Sirmon; Brown, John. Schizophrenia and the structure of language: the linguist's view. SANE-POWIC Meeting on the Origins of Language and Psychosis, Oxford, July 2004.
- * He, Congzhou; Brown, Cati; Covington, Michael A.; and Naçi, Lorina, How complex is that sentence? A proposed revision of the Rosenberg and Abbeduto D-Level scale, poster presented at the annual meeting of the Linguistic Society of America, Boston, January 2004.
- * Brown, Cati; Covington, Michael A.; Semple, James; and Brown, John, Reduced idea density in speech as an indicator of schizophrenia and ketamine intoxication, poster presented at the International Congress on Schizophrenia Research, Savannah, April 2005.
- * He, Congzhou; Covington, Michael A.; Semple, James; and Brown, John, Some linguistic signs of ketamine-induced cognitive impairment, poster presented at the International Congress on Schizophrenia Research, Savannah, April 2005.
- ** Can machines be polite? Invited presentation at Cognitive Systems Conference, sponsored by University of New Mexico and Sandia National Laboratories, Santa Fe, N.M., July 2005.
- * He, Congzhou; Weinstein, Sara; and Covington, Michael A. Speech analysis software for psychiatric research: the case of D-Level Rater. Poster, First Annual GA/SC Neuroscience Colloquium, Charleston, April 2006.
- * Brown, Cati; Snodgrass, Tony; Covington, Michael A.; Herman, Ruth; and Kemper, Susan J., Measuring propositional idea density through part-of-speech tagging. Poster, Linguistic Society of America Annual Meeting, Anaheim, California, January 2007.
- * He, Congzhou; Weinstein, Sara; and Covington, Michael A. Using Text Analysis Software in Schizophrenia Research. Poster, International Congress on Schizophrenia Research (ICOSR), Colorado Springs, March 2007.
- * Covington, Michael A., and McFall, Joe D. The moving-average type-token ratio (MATTR). Poster, Linguistic Society of America, Chicago, January 2008.
- ** Covington, Michael A. Studying terrorism with natural language processing and artificial intelligence. Conflict Processes Summit, Athens, Ga., January 2008.
- ** Uchiyama, Hajime; Covington, Michael A.; and Potter, W. D. (2008) Vibrotactile glove guidance for semi-autonomous wheelchair operations. 46th Annual SCM Southeast Conference (ACMSE), Auburn, Alabama.

- ** Thai, C. N.; Covington, M. A.; Haidekker, M. A.; and McCully, K. (2008) Evaluation of body sensor networks for instruction in embedded systems and wireless sensor networks. ASABE Annual International Meeting, Providence, Rhode Island.
- ** How to write more clearly, think more clearly, and learn complex material more easily. Presented at SEAALL (Southeast Chapter, American Association of Law Libraries), April 17, 2009, Athens, Ga.
- * Idea density: a potentially useful characteristic of retrieved documents. Proceedings, IEEE SoutheastCon 2009.
- * How to make a lumpy random-number generator. Proceedings, 4th International Workshop on Plan 9, 2009.
- ** Linguistics, schizophrenia, and computers. Emory University, November 3, 2009.
- ** Linguistics, schizophrenia, and computers. American Association for Applied Linguistics (AAAL), invited participant in organized session, March, 2010.

Covington, Michael A.; Potter, Iris; Snodgrass, Tony. Stylometric classification of translations of the same text. Southeastern Conference on Linguisics (SECOL), April, 2010.

- * Charles Hollingsworth, Stefaan Van Liefferinge, Rebecca A. Smith, Michael A. Covington, and Walter D. Potter (2011) The ARC Project: Creating logical models of Gothic cathedrals using natural language processing. Proceedings, 5th ACL-HLT Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (Portland, Oregon).
- * Stefaan Van Liefferinge, Charles Hollingsworth, Rebecca A. Smith, Michael A. Covington, and Walter D. Potter. Artificial Intelligence Techniques for Understanding Gothic Cathedrals. ICAI 2011.
- ** Prolog coding standards (invited tutorial). International Conference on Logic Programming, Lexington, Kentucky, July 2011.
- ** Linguistics, schizophrenia, and computers: work in progress. Emory University, November 2011.

Michael A. Covington, S. L. Anya Lunden, Sarah Cristofaro, Stephanie Johnson, Claire Ramsay, Beth Broussard, Shayi Zhang, C. Thomas Bailey, Robert Fogarty, and Michael T. Compton. Phonetic measurement of reduced facial muscle movement among young adults with first-episode schizophrenia-spectrum disorders. Georgetown University Round Table (GURT) on Languages and Linguistics, March 2012.

3i. Sessions chaired

Session on syntax (in French), International Congress of Linguists, Québec, 1992.

Session on syntax, Linguistic Society of America, Boston, 1994. Session on dependency grammar, COLING-98, Montréal, 1998.

4. Public service

Member, ISO Prolog standards committee (WG17), since 1993.

Supplied invited comments to the Congressional Office of Technology Assessment on copyright reform (early 1990s).

5. Other services

Administration:

Managed the Artificial Intelligence Laboratory; supervised the secretary (until 2005) and lab technicians (reduced role after 2005).

Produced the IAI newsletter, 2 issues per year beginning Spring 2009.

Computer security:

Chaired task force to develop and maintain computer ethics policy for the University, 1993-1999.

Chaired Incident Handling Team to coordinate the University's response to computer security incidents, 1993-1998.

Gave numerous presentations on computer security at local and state meetings.

Contract research and development:

(These are minor items. See also Grants, above.)

Supervised programming effort for an educational software project, *Cognitive Structures Diagnosis and Repair*, designed by Bruce Britton with funding from DARPA and President's Technology Initiative, 1995-1998.

Technical development relating to smart instrumentation for Hewlett-Packard, summer 1999.

Natural language processing for an online encyclopedia of oak forest management, USDA Forest Service, 2001–2003.

Departmental, college, or university committees:

Program area committee for B.S. in Computer Systems Engineering, 2008.

Exploratory committee for B.S. in Electrical Engineering, 2008.

Artificial Intelligence Admissions Committee, most years since 1986.

Linguistics Program Advisory Committee, 1997–2001.

Service to student groups and organizations:

None.

Service to support units of the University:

Developed and supported LAT_EX style sheets for University of Georgia theses and dissertations, 1992–present.

Revised thesis format regulations for the Graduate School, 1992; helped make further revision, 2010.