

A(nthony) Charles Catania

Curriculum Vitae August 2018

Date of Birth, New York, NY: 22 June 1936
Married: Constance Julia Britt, 10 February 1962
Children: William John, 3 February 1964
Kenneth Charles, 5 November 1965

Educational History

P.S. 132, Manhattan; Bronx High School of Science, Class of 1953
A.B., Columbia College, 1957
New York State Regents Scholarship; Phi Beta Kappa; Highest Honors with Distinction in Psychology
M.A., Columbia University, 1958
Ph.D. in Psychology, Harvard University, 1961 (March)
National Science Foundation Fellow, 1958-60

Professional History

Columbia College
Teaching Assistant, 1956-58
Bell Telephone Laboratories
Research Technician (under H. M. Jenkins), Summer 1958
Harvard University
Research Fellow in Psychology (supported by B. F. Skinner's NSF Grant), 1960-62
Smith Kline and French Laboratories
Senior Pharmacologist (under L. Cook), 1962-64
University College of Arts and Science, New York University
Assistant Professor, 1964-66; Associate Professor, 1966-69; Professor and Department Chair, 1969-73
University of Maryland, Baltimore County (UMBC)
Professor, 1973-2008; Program Director/CoDirector, Applied Behavior Analysis MA track, 1998-2007; Professor Emeritus, Departmental Curmudgeon, 2008-
University of Wales (formerly University College of North Wales)
Professorial Fellow and Fulbright Senior Research Fellow, 1986-87; Visiting Research Fellow, 1989-
Keio University, Tokyo, Japan
Visiting Professor, July 1992

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PROFESSIONAL ACTIVITIES AND ORGANIZATIONS

Grants and Awards

NSF Grant GB-3614, Response independence, 1965-67
 NSF Grants GB-43251, Varied reinforcers and choice, 1974-76; BNS76-09723, Maintenance of behavior: Temporal factors, 1976-79; BNS82-03385 and BNS85-06724, Free-choice versus forced-choice preference, 1982-86; BNS86-07517 (with E. Shimoff), Differential reinforcement along two response dimensions, 1986-88
 NIH Grants MH-13613, Interactions in concurrent performances, 1967-70; MH-18506, Elicitation and learning, 1970-73; MH-33086, Behavior structure, 1979-81; MH-37256, Free-choice preference, 1982-83
 UMBC GRA Award, Development of language function in normal children and children with behavioral disorders, 1991-92; 1992-93
 Basic Research Grant, Cambridge Center for Behavioral Studies, Reinforcement contingencies and higher-order response classes, 1992-93
 Second Prize, Real Estate Board of New York Essay Contest, *What the Bill of Rights Means to Me*, 1952.
 British Council Fellowship, 1986
 Fulbright Senior Research Fellowship (US - UK); James McKeen Cattell Sabbatical Award, 1986-87
 First Prize, Fulbright British-English and American-English Vocabulary Competition, 1987
 Outstanding Contributor to Behavior Analysis, Northern California Association for Behavior Analysis, 1990
 Outstanding Scientific Contributions to Psychology Award, Maryland Psychological Association, 1993
 The Don F. Hake Basic/Applied Research Award, Division 25 of the American Psychological Association, 1998
 Master Lecturer, Animal Learning and Behavior, American Psychological Association, 1998
 Outstanding Contribution to Training Award, Kennedy Krieger Institute, 2003
 Honorary Founding Member, Icelandic Association for Behavior Analysis, Aug 2004
 EAHB-SIG Distinguished Career Award, May 2008
 ABAI Distinguished Service to Behavior Analysis Award, May 2010.
 Murray Sidman Award for Enduring Contribution to Applied Behavior Analysis, BABAT, October 2013.
 SEAB Victor G. Laties Award for Lifetime Service, May 2015.
Russia Besieged, Champion; *Bitter Woods*, Second Place, PrezCon, Charlottesville, VA, June 2017.
 Listed in *Who's Who in America, ...in the World, ...in the East, Encyclopedia of Psychology* (2nd ed., Wiley, 1994), and other biographical references

Reviewing and Editing

NIMH Small Grants Committee, Member, 1970-74
 NSF-NRC Postdoctoral Fellowship Committee, 1980
 NSF Psychobiology Advisory Panel, 1982-85
Journal of the Experimental Analysis of Behavior: Editor, 1966-69; Review Editor, 1969-76, 1983-91; Special Issue Associate Editor, 2017; Board of Editors, 1964-66, 1977-79, 2005-07.
Behavioral and Brain Sciences: Associate Editor for the Experimental Analysis of Behavior, 1980-2008; Board of Editors, 2008- ; Co-editor (with S. Harnad), Special 1984 B. F. Skinner Issue, Behavior and the selective role of the environment. *Behavioral and Brain Sciences*, 7, 473-724
Behavioral and Brain Functions (online journal): Associate Editor, 2004-2008
Psychology (electronic journal): Associate Editor, 1999-2001
Analysis of Verbal Behavior: Board of Editors, 1985-89; Advisory Board, 1991-96
 Board of Editors: *Behaviorism*, 1972-89; *The Behavior Analyst*, 1980-83; 1996-99; *Behavior and Philosophy*, 2001-2008; *International Journal of Psychology and Psychological Therapy*, 2001-2008 ; *European Journal of Behavior Analysis*, 2002-2008 ; *Mexican Journal of Behavior Analysis*, 2004-2008 ; *Brazilian Journal of Behavior Analysis*, 2004-
William S. Verplanck Glossary/Thesaurus Project (University of Akron and Cambridge Center for Behavioral Studies). Editor-in-Chief, 1999-
Sloan Century Series in Behavior Analysis/Cambridge Center for Behavioral Studies. Series Editor, 2005-

PROFESSIONAL ACTIVITIES AND ORGANIZATIONS (continued)**Organizations***Society for the Experimental Analysis of Behavior*

President, 1966-67, 1981-83

Board of Directors, 1966-74, 1978-86, 1987-95, 1996-2004

Vice-President of Society and Vice-Chair of Board, 2002-04

American Psychological Association

Fellow, Divisions 3, 6, 25, 28; Distinguished Visitor Program; Board of Scientific Affairs CARE Committee, 1978-81; Committee on Research Support, 1983

Division 25 (Experimental Analysis of Behavior): Program Co-chair, 1976; President, 1976-79; Executive Committee, 1981-84; President (-Elect, Past-) 1996-98

Eastern Psychological Association

Fellow; Board of Directors, 1979-82

Association for Behavior Analysis, Fellow

President (-Elect, Past) 1981-84

Chair, Publication Board, 1991-95

ABA Curmudgeon, 2001-2009

*European Association for Behavior Analysis**European Institute for the Study of Human Behavior*

Advisory Board, 2005-

Society for Quantitative Analyses of Behavior, Member*Maryland Association for Behavior Analysis*

President-elect, President, Past-President, 2001-03

American Psychological Society, Charter Member and Fellow.*Language Origins Society*

Program Chair, 1996 Annual Meeting

Board of Directors, 1997-98

Cambridge Center for Behavioral Studies

Board of Trustees, 1999-

Association of Professional Behavior Analysts, Advisory Board, 2011-13*Phi Beta Kappa*, Fellow*Psychonomic Society**Sigma Xi**Washington Area Secular Humanists*, Board Member, 2011-14*The Village in Howard*, Board of Directors, 2014-2016; TVIH Elders' Group; TVIH Players**TEACHING****As Postdoctoral Fellow (1961-62)**

Comparative Psychology; Seminar in Comparative Psychology; operant demonstrations for NatSci 114

At New York University (1964-73)

Experimental Psychology I: Sensation and Perception (including laboratory)

Experimental Psychology II: Learning and Motivation (including laboratory)

Psychology of Learning; Statistics for Psychology; Occasional advanced seminars and graduate courses

At University of Maryland, Baltimore County (1973-2011); undergraduate unless otherwise specified

Psychology of Learning

Seminar in Learning (both graduate and undergraduate)

Language and Thought

Various other courses, both graduate and undergraduate, including Introductory Psychology and student supervision in laboratory practica

At Kennedy Krieger Institute (2010-2011): Technical writing workshop

ACADEMIC SERVICE

University

Blackboard Advisory Board (2006-07); Computer Policy Committee (2005-07); invited lecture/discussion for tutors (Mar 2006); Neurosciences Committee (1999-2001); Teaching, Learning and Technology Lecture (Nov 2005); IACUC Institutional Animal Care and Use Committee (1996-2001); International Committee (1999-2001); Learning Resources Center; Phi Beta Kappa, UMBC chapter

Earlier service includes Faculty P&T review Committees, P&T committees in other departments, campus-wide searches, UMBC Library Authors' Day participations, Faculty Chess team.

Departmental

Human Services Psychology MA track in Applied Behavior Analysis (ABA) Committee: Founder (with M. Cataldo and W. Fisher, 1998-1999); Director and Co-Director (2000-08); in that capacity, also occasional representative to CGDA and BACB

Applied Developmental Psychology (ADP) Committee (through 2005); Behavioral Medicine Committee (through 2005); Five-Year Review of Tenured Faculty (co-chair, 2005); Graduate Committee (through 2003); Animal Care and Use Committee (through 2001, as chair and as member); Undergraduate Committee (through 2001); Colloquium Committee, as chair and as member (through 2000); Human Services Psychology (HSP) Committee (through 2006)

Promotion & Tenure and Contract Renewal Committees (various, as chair and as member)

Search Committees (various, as chair and as member, including ABA [2001-03, 2004-06] and general departmental searches)

Other service included Bylaws committee, DRIF committee, Merit Criteria committee, Space committee, 5-year plan committee, and staff searches (e.g., Animal Caretaker).

Sponsorship of University Visitors

Sagvolden, T. (University of Oslo, Norway). Postdoctoral fellowship, Norwegian Research Council (UMBC, 1974-75, 1984); Fulbright Fellowship (UMBC, 1988); subsequent brief visits.

Bernstein, D. J. (University of Nebraska - Lincoln). Sabbatical leave (UMBC, 1983-84).

de Souza, D. des G., (University of Sao Carlos, Brazil). Brazilian postdoctoral fellowship (UMBC, 1984-85).

Hayes, S. C. (University of North Carolina at Greensboro). Academic leave (UMBC, 1985-86).

Ono, K. (Komazawa University, Tokyo, Japan). Postdoctoral Research Fellowship, (UMBC, 1985-87); subsequent brief visits.

Presti, G. (University of Milan, Italy). Visiting fellowship, Comitato Nazionale per le Scienze Biologiche e Mediche, Italy (UMBC, Spring 1989).

Luciano, C. (University of Granada, Spain). Visiting fellowship (UMBC, Fall 1991).

Hori, K. (Saitama Medical School, Japan). Sabbatical (UMBC, 1994-95; 2007-08).

Zappulla, I. (Child Psychiatry, Italy). ABA specialization visit (Kennedy Krieger Institute, Mar-Jun 2003).

PUBLICATIONS

Books

- Catania, A. C. (Ed.) (1968). *Contemporary research in operant behavior*. Glenview, Illinois: Scott, Foresman. [Spanish edition: (1980). *Investigacion contemporanea en conducta operante* (Jorge Brash, trans.). Mexico: Editorial Trillas]
- Catania, A. C., & Brigham, T. A. (Eds.) (1978). *Handbook of applied behavior analysis: Social and instructional processes*. New York: Irvington.
- Catania, A. C. (1979). *Learning*; (1984). *Learning* (2nd ed.); (1992). *Learning* (3rd ed.). Englewood Cliffs, NJ: Prentice-Hall.
- Catania, A. C., & Harnad, S. (Eds.) (1988). *The selection of behavior: the operant behaviorism of B. F. Skinner*. New York: Cambridge University Press.
- Catania, A. C., & Hiline, P. N. (Eds.) (1996). *Variations and selections: An anthology of reviews from the Journal of the Experimental Analysis of Behavior*. Bloomington, IN: Society for the Experimental Analysis of Behavior.
- Catania, A. C. (1998). *Learning* (4th ed.). Upper Saddle River, NJ: Prentice-Hall. [Portuguese edition: (1999) *Aprendizagem* (D. d. G. de Souza, trans.). Porto Alegre, Brazil: Editora Artes Medicas]
- Laties, V. G., & Catania, A. C. (Eds.) (1999). *B. F. Skinner's Cumulative record* (Definitive Edition). Cambridge, MA: B. F. Skinner Foundation.
- Catania, A. C. (Ed.) (2000) *William S. Verplanck glossary/thesaurus of behavioral terms* (CD-ROM). Columbia, MD: CMS Software.
- Catania, A. C. (2006). *Learning* (Interim [4th] ed.); (2013). *Learning* (5th ed.). Cornwall-on-Hudson, NY: Sloan Publishing.
- Bailey, J., Burch, M., Catania, A. C., & Michael, J. (Eds.) (2008). *At my own pace: The autobiography of Fred S. Keller*. Cornwall-on-Hudson, NY: Sloan Publishing.
- Catania, A. C. (2017). *The ABCs of behavior analysis: An introduction to behavior and learning*. Cornwall-on-Hudson, NY: Sloan Publishing.
- Catania, A. C., & St. Peter, C. (in preparation). *On our own terms: The words of behavior analysis*. Cornwall-on-Hudson, NY: Sloan Publishing.
- Catania, A. C., Neef, N., & Laties, V. G. (in preparation). *The evolution of a science: A brief history of behavior analysis in the twentieth century*. Cornwall-on-Hudson, NY: Sloan Publishing.

Encyclopedia Articles

- Catania, A. C. (1987). Instrumental conditioning. *McGraw-Hill Encyclopedia of science and technology* (6th ed.), Vol. 9 (ICE-LEO), (pp. 228-229). New York: McGraw-Hill.
- Catania, A. C. (1992). Reinforcement. In L. Squire (Ed.) *Encyclopedia of learning and memory*. (pp. 558-562). New York: Macmillan.
- Catania, A. C. (1994). Natural selection. In R. J. Corsini (Ed.), *Encyclopedia of psychology* (2nd ed.) (Vol. 2, pp. 452-455). NY: Wiley.
- Catania, A. C. (1999). Attenzione (pp. 377-378); Analisi Sperimentale del Comportamento (pp. 773-776). In P. Parisi et al. (Eds.) *L'Universo del Corpo, Vol II*. Rome: Istituto della Enciclopedia Italiana.
- Catania, A. C. (2000). Behavior analysis. In Alan E. Kazdin (Ed.), *Encyclopedia of psychology, Volume 1 ABORTI-BYSTAN* (pp. 386-388); Cumulative record. *Volume 2 CALKIN-DETERM* (pp. 413-414); Law of Effect. *Volume 4 GOVERN-LEARNE* (498-499). Washington, DC: APA / New York: Oxford University Press.
- Catania, A. C. (2002). Skinner, Burrhus Frederic. *Encyclopedia of cognitive science*. London: Macmillan.
- Catania, A. C. (2008). Pavlov, Ivan; Skinner, B. F. *International Encyclopedia of the Social Sciences* (2nd ed.). New York: Macmillan. (online encyclopedia)
- Catania, A. C. (2011, 2017). Charles B. Ferster. In F. L. Volkmar (Ed.), *Encyclopedia of Autism Spectrum Disorders*. New York: Springer. (online encyclopedia)
- Stahlman, D. W., & Catania, A. C. (under review). Evolutionary biology and the natural selection of behavior. In Morris, E. K., & McKerchar, P. (Eds.), *Encyclopedia of Child and Adolescent Development*. New York: Wiley.

Chapters

- Catania, A. C. (1966). Concurrent operants. In W. K. Honig (Ed.), *Operant behavior: Areas of research and application* (pp. 213-270). New York: Appleton-Century-Crofts.
- Catania, A. C. (1970). Reinforcement schedules and psychophysical judgments: A study of some temporal properties of behavior. In W. N. Schoenfeld (Ed.), *The theory of reinforcement schedules* (pp. 1-42). New York: Appleton-Century-Crofts.
- Catania, A. C. (1970). The concept of inhibition in the analysis of operant interactions. In *Schedule-induced and schedule-dependent phenomena. Vol. 2* (pp. 245-249). Toronto: Addiction Research Foundation.
- Catania, A. C. (1971). Discriminative stimulus properties of drugs: Interpretations I. In T. Thompson & R. Pickens (Eds.), *Stimulus properties of drugs* (pp. 149-155). New York: Appleton-Century-Crofts.
- Catania, A. C. (1971). Elicitation, reinforcement and stimulus control. In R. Glaser (Ed.), *The nature of reinforcement* (pp. 196-220). New York: Academic Press.
- Catania, A. C. (1973). The nature of learning. In J. A. Nevin & G. S. Reynolds (Eds.), *The study of behavior: Learning, motivation, emotion and instinct* (pp. 31-68). Glenview, IL: Scott, Foresman.
- Catania, A. C. (1977). Verhaltensanalyse der Sprache. (Language: A behavioral analysis, H. H. Henschen, Trans.) In H. Zeier (Ed.), *Pawlow und die Folgen* (pp. 342-382). Zurich: Kindler Verlag.
- Catania, A. C. (1980). Operant theory: Skinner. In G. M. Gazda & R. Corsini (Eds.), *Comparative theories of learning* (pp. 135-177). Itasca, IL: F. E. Peacock.
- Catania, A. C. (1980). Freedom of choice: A behavioral analysis. In G. H. Bower (Ed.), *The psychology of learning and motivation. Volume 14* (pp. 97-145). New York: Academic Press.
- Catania, A. C. (1981). The flight from experimental analysis. In C. M. Bradshaw, E. Szabadi, & C. F. Lowe (Eds.), *Quantification of steady-state operant behaviour* (pp. 49-64). Amsterdam: Elsevier/North-Holland. Reprinted with commentaries and reply, *European Journal of Behaviour Analysis*, 2012.
- Catania, A. C., & Keller, K. J. (1981). Contingency, contiguity, correlation, and the concept of causation. In P. Harzem and M. D. Zeiler (Eds.), *Predictability, correlation, and contiguity. Advances in analysis of behaviour, Volume 2* (pp. 125-167). Chichester: Wiley.
- Catania, A. C. (1983). Behavior analysis and behavior synthesis in the extrapolation from animal to human behavior. In G. Davey (Ed.), *Animal models of human behavior* (pp. 51-69). Chichester: Wiley. [Reprinted in translation: Anguera, M. T., & Veà, J. J. (Eds.) (1984). *Conducta animal y representaciones mentales*. Barcelona: Promociones Publicaciones Universitarias]
- Catania, A. C. (1985). The two psychologies of learning: Blind alleys and nonsense syllables. In S. Koch & D. E. Leary (Eds.), *A century of psychology as science* (pp. 322-335). New York: McGraw-Hill.
- Catania, A. C. (1985). Rule-governed behavior and the origins of language. In C. F. Lowe, M. Richelle, D. E. Blackman & C. Bradshaw (Eds.), *Behavior analysis and contemporary psychology* (pp. 135-156). Hillsdale, NJ: Erlbaum.
- Catania, A. C., & Cerutti, D. (1986). Some nonverbal properties of verbal behavior. In T. Thompson & M. D. Zeiler (Eds.), *Analysis and integration of behavioral units* (pp. 185-211). Hillsdale, NJ: Erlbaum.
- Catania, A. C., Shimoff, E. H., & Matthews, B. A. (1989). An experimental analysis of rule-governed behavior. In S. C. Hayes (Ed.), *Rule-governed behavior: Cognition, contingencies and instructional control* (pp. 119-150). New York: Plenum.
- Catania, A. C., Matthews, B. A., & Shimoff, E. (1990). Properties of rule-governed behaviour and their implications. In D. E. Blackman & H. Lejeune (Eds.) *Behaviour analysis in theory and practice: Contributions and controversies* (pp. 215-230). Hove & London, UK: Erlbaum.
- Catania, A. C. (1991). The phylogeny and ontogeny of language function. In N. A. Krasnegor, D. M. Rumbaugh, R. L. Schiefelbusch, & M. Studdert-Kennedy (Eds.). *Biological and behavioral determinants of language development* (pp. 263-285). Hillsdale, NJ: Erlbaum.
- Catania, A. C. (1991). Time as a variable in behavior control. In I. H. Iversen & K. A. Lattal (Eds.) *Experimental analysis of behavior. Part 2*. (pp. 1-19). Amsterdam, The Netherlands: Elsevier.
- Catania, A. C. (1991). Glossary. In I. H. Iversen & K. A. Lattal (Eds.) *Experimental analysis of behavior. Part 2*. (pp. G1-G44). Amsterdam, The Netherlands: Elsevier.

- Catania, A. C. (1994). The natural and artificial selection of verbal behavior. In Hayes, S. C., Hayes, L. J., Sato, M., & Ono, K. (Eds.) *Behavior analysis of language and cognition* (pp. 31-49). Reno, NV: Context Press.
- Catania, A. C. (1995). Selection in biology and behavior. In J. T. Todd & E. K. Morris (Eds.), *Modern perspectives on B. F. Skinner and contemporary behaviorism* (pp. 185-194). Westport, CT: Greenwood Press.
- Catania, A. C. (1996). On the origins of behavior structure. In T. R. Zentall & P. Smeets (Eds.) *Stimulus class formation in humans and animals* (pp. 3-12). Amsterdam: Elsevier.
- Shimoff, E., & Catania, A. C. (1998). The verbal governance of behavior. In K. A. Lattal & M. Perone (Eds.) *Handbook of research methods in human operant behavior* (pp. 371-404). New York: Plenum.
- Catania, A. C. (1998). The taxonomy of verbal behavior. In K. A. Lattal & M. Perone (Eds.) *Handbook of research methods in human operant behavior* (pp. 405-433). New York: Plenum.
- Catania, A. C. (2000). Ten points every behavior analyst needs to remember about reinforcement. In J. C. Leslie & D. Blackman (Eds.) *Experimental and applied analyses of human behavior* (pp. 23-37). Reno, NV: Context Press.
- Catania, A. C. (2001). Three varieties of selection and their implications for the origins of language. In G. Györi (Ed.) *Language evolution: Biological, linguistic and philosophical perspectives* (pp. 55-71). New York/Bern: Peter Lang.
- Catania, A. C. (2003). Verbal governance, verbal shaping, and attention to verbal stimuli. In K. A. Lattal & P. N. Chase (Eds.), *Behavior theory and philosophy* (pp. 301-321). New York: Kluwer/Academic Press.
- Catania, A. C. (2011). Basic operant contingencies: Main effects and side effects. In Fisher, W. W., Piazza, C. C., & Roane, H. S. (Eds.). *Handbook of Applied Behavior Analysis* (pp. 34-54). New York: Guilford. (under review, 2nd ed.).
- DeLeon, I. G., Bullock, C. E., & Catania, A. C. (2013). Arranging reinforcement contingencies in applied settings: Fundamentals and implications of recent basic and applied research. In G. J. Madden (Ed.). *APA Handbook of Behavior Analysis. Volume 2: Translating Principles into Practice* (pp. 47-75). Washington, DC: American Psychological Association.
- Catania, A. C. (2017). Antecedents: How behavior analysis selected me. In R. D. Holdstock & H. S. Pennypacker (Eds.), *Behavioral Science: Tales of Inspiration, Discovery, and Service (Omnibus edition)*, pp. 541-574; *Volume III*, pp. 89-122). Beverly, MA: Cambridge Center for Behavioral Studies.

Journal Articles

- Lane, H. L., Catania, A. C., & Stevens, S. S. (1961). Voice level: Autophonic scale, perceived loudness, and effects of sidetone. *Journal of the Acoustical Society of America*, **33**, 160-167.
- Catania, A. C. (1961). Behavioral contrast in a multiple and concurrent schedule of reinforcement. *Journal of the Experimental Analysis of Behavior*, **4**, 335-342. (based on Ph.D. dissertation: Characteristics of performances under combined multiple and concurrent scheduling of reinforcement)
- Reynolds, G. S., & Catania, A. C. (1961). Behavioral contrast with fixed-interval and low-rate reinforcement. *Journal of the Experimental Analysis of Behavior*, **4**, 387-391.
- Catania, A. C. (1961). Effects of component duration on multiple schedule performance. *American Psychologist*, **16**, 414. (abstract)
- Catania, A. C. (1962). Independence of concurrent responding maintained by interval schedules of reinforcement. *Journal of the Experimental Analysis of Behavior*, **5**, 175-184.
- Reynolds, G. S., & Catania, A. C. (1962). Temporal discrimination in pigeons. *Science*, **135**, 314-315. [Reprinted: D. A. Lieberman (Ed.) (1964). *Learning and the control of behavior* (pp. 224-227). New York: Holt, Rinehart and Winston]
- Reynolds, G. S., Catania, A. C., & Skinner, B. F. (1963). Conditioned and unconditioned aggression. *Journal of the Experimental Analysis of Behavior*, **6**, 73-74.
- Catania, A. C., & Cutts, D. (1963). Experimental control of superstitious responding in humans. *Journal of the Experimental Analysis of Behavior*, **6**, 203-208.
- Catania, A. C. (1963). Concurrent performances: Reinforcement interaction and response independence. *Journal of the Experimental Analysis of Behavior*, **6**, 252-263.

- Catania, A. C. (1963). Concurrent performances: A baseline for the study of reinforcement magnitude. *Journal of the Experimental Analysis of Behavior*, **6**, 299-300.
- Catania, A. C. (1963). Techniques for the control of monocular and binocular viewing in the pigeon. *Journal of the Experimental Analysis of Behavior*, **6**, 627-629.
- Catania, A. C. (1964). On the visual acuity of the pigeon. *Journal of the Experimental Analysis of Behavior*, **7**, 361-366. [Reprinted: T. E. McGill (Ed.) (1973). *Readings in animal behavior* (2nd ed., pp. 278-282). New York: Holt, Rinehart & Winston]
- Cook, L., & Catania, A. C. (1964). Effects of drugs on avoidance and escape behavior. *Federation Proceedings*, **23**, 818-835.
- Catania, A. C., & Gill, C. A. (1964). Inhibition and behavioral contrast. *Psychonomic Science*, **1**, 257-258.
- Catania, A. C. (1965). Interocular transfer of discriminations in the pigeon. *Journal of the Experimental Analysis of Behavior*, **8**, 147-155.
- Catania, A. C., Deegan, J. F., & Cook, L. (1966). Concurrent fixed-ratio and avoidance responding in the squirrel monkey. *Journal of the Experimental Analysis of Behavior*, **9**, 227-234.
- Catania, A. C., & Reynolds, G. S. (1968). A quantitative analysis of the behavior maintained by interval schedules of reinforcement. *Journal of the Experimental Analysis of Behavior*, **11**, 327-383. [Excerpted in H. Rachlin (1976). *Behavior and Learning* (pp. 287-300). San Francisco: Freeman. Listed as an Institute for Scientific Information Citation Classic; commentary in *Current Contents: Social & Behavioral Sciences*, 1980, **12** (No. 47), 16]
- Catania, A. C. (1969). Concurrent performances: Inhibition of one response by reinforcement of another. *Journal of the Experimental Analysis of Behavior*, **12**, 731-744. [Reprinted: P. B. Dews (Ed.) (1970). *Festschrift for B. F. Skinner* (pp. 170-183). New York: Appleton-Century-Crofts]
- Catania, A. C. (1971). Reinforcement schedules: The role of responses preceding the one that produces the reinforcer. *Journal of the Experimental Analysis of Behavior*, **15**, 271-287.
- Catania, A. C., & Dobson, R. (1972). Concurrent performances: Rate and accuracy of free-operant oddity responding. *Journal of the Experimental Analysis of Behavior*, **17**, 25-35.
- Catania, A. C. (1972). Concurrent performances: Synthesizing rate constancies by manipulating contingencies for a single response. *Journal of the Experimental Analysis of Behavior*, **17**, 139-145.
- Catania, A. C. (1972). Chomsky's formal analysis of natural languages: A behavioral translation. *Behaviorism*, **1**, 1-15. [Reprinted in translation: (1983). *Behavior Analysis. Volume 1, Language acquisition*. Tokyo: Kawashima Shoten]
- Catania, A. C. (1973). The psychologies of structure, function, and development. *American Psychologist*, **28**, 434-443.
- Catania, A. C. (1973). Self-inhibiting effects of reinforcement. *Journal of the Experimental Analysis of Behavior*, **19**, 517-526.
- Catania, A. C. (1973). The concept of the operant in the analysis of behavior. *Behaviorism*, **1**, 103-116.
- Catania, A. C., Silverman, P. J., & Stubbs, D. A. (1974). Concurrent performances: Stimulus-control gradients during signalled and unsignalled schedules of concurrent reinforcement. *Journal of the Experimental Analysis of Behavior*, **21**, 99-107.
- Catania, A. C. (1974). Beyond reinforcement, behind schedule. Review of J. L. Williams, *Operant learning: Procedures for changing behavior*. *Contemporary Psychology*, **19**, 382-383.
- Catania, A. C. (1975). Freedom and knowledge: An experimental analysis of preference in pigeons. *Journal of the Experimental Analysis of Behavior*, **24**, 89-106.
- Catania, A. C. (1975). The myth of self-reinforcement. *Behaviorism*, **3**, 192-199. [Also in T. A. Brigham, R. Hawkins, J. W. Scott, & T. F. McLaughlin (Eds.), *Behavior analysis in education* (pp. 39-46). Dubuque, IA: Kendall/Hunt, 1976]
- Catania, A. C. (1975). Drug effects and concurrent performances. *Pharmacological Reviews*, **27**, 385-394.
- Catania, A. C. (1976). Concurrent performances: Rate constancies without changeover delays. *Journal of the Experimental Analysis of Behavior*, **25**, 377-387.
- Adams, C. K., Hall, D. C., Pennypacker, H. S., Goldstein, M. K., Hench, L. L., Madden, M. C., Stein, G. H., & Catania, A. C. (1976). Lump detection in simulated human breasts. *Perception and Psychophysics*, **20**, 163-167.

- Catania, A. C. (1976). Self-reinforcement revisited. *Behaviorism*, **4**, 157-162.
- Matthews, B. A., Shimoff, E., Catania, A. C., & Sagvolden, T. (1977). Uninstructed human responding: Sensitivity to ratio and interval contingencies. *Journal of the Experimental Analysis of Behavior*, **27**, 453-467.
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Catania, A. C. (2012, Oct 5), Atheists deserve better treatment. *Washington Post*, http://articles.washingtonpost.com/2012-10-05/opinions/35501708_1_atheists-catholic-student-atheism

Catania, A. C. (2012, Dec 12 and 26). Chart. *The MaddowBlog*. http://maddowblog.msnbc.com/news/2012/12/17/15973646-chart-six-of-the-deadliest-mass-shootings-have-happened-since-2007?pc=25&sp=50#discussion_nav ; <http://maddowblog.msnbc.com/news/2012/12/26/16169576-chart-before-and-after-the-assault-weapons-ban-comments>

Catania, A. C. (2012, Dec 30), Should campaign donations be kept secret? *Washington Post*, p. A22. http://www.washingtonpost.com/opinions/should-campaign-donations-be-kept-secret/2012/12/29/6cde8e02-4f78-11e2-835b-02f92c0daa43_story.html

Shapiro, M., Xu, Z., Catania, A. C., Neef, N., Kranak, M., & Smith, E. (2016). Shaping verbal behavior increases the use of specific praise by general educators. Chicago: ABAI (poster).

PRESENTATIONS

Association for Behavior Analysis: (with Cerutti) Free, forced & coerced choices, Milwaukee 1982; Cultural contingencies & evolution of behavior analysis (Presidential address), Milwaukee 1983; (Poster with Todorov, Oliviera-Castro) Contrast effects in concurrent schedules with fixed relative rft rate, Nashville 1984; Computer simulations of shaping, Columbus 1985; (with Shimoff, Matthews, Cerutti) Differential reinforcement along two response dimensions, In: Advances in analysis of human behavior, Milwaukee 1986; (Poster with Ono, de Souza, Cerutti); (with Shimoff) Higher-order units of behavior, Phila. 1988; (with Shimoff, Matthews) Interactive computer programs for teaching behavior analysis. Milwaukee 1989; Symposia: Three-term contingency in scientific behavior, Symposium on Willard Day. Nashville 1990; (Paper) Behavioral effects of food sensitivities, Atlanta 1991; Discussant: Rule-governed behavior; Contextualism, San Francisco 1992; (with Shimoff, Matthews), Educational software & academic contingencies, Chicago 1993; Selection of selectionism in 21st century, In: Behavior Analysis-2093 (J. Greenspoon, chair); Chicago 1993; Chair/discussant, Stimulus equivalence, Atlanta 1994; Panelist, Teaching behavior analysis, Washington DC 1995; Discussant, Symposium on derived relations; Issues in behavior development; Symposium on teaching behavior analysis, San Francisco 1996; Symposium: Human & nonhuman operant behavior; Chicago 1997; ABA MA at UMBC (& posters, 1999ff.): In Symposium, Behavior Analysis Graduate Programs; (with Shimoff, Sagvolden) Delay of reinforcement, hyperactivity & attention deficit, Symposium: Developmental implications of reinforcement delays, Chicago 1999; Harvard Pigeon Lab in the Early 1960's, in Symposium: Tribute to Harvard Pigeon Lab, 1948-98, Washington DC 2000; New Orleans 2001; Invited address: When words rule, Discussant, Toronto 2002; Verplanck Panel Chair, San Francisco 2003; Antecedents & consequences of words (Japanese, Portuguese International sessions), Boston 2004; Invited address: Sources of novel behavior: Implications for development of verbal behavior; Panelist, Verplanck's Glossary/Thesaurus of Behavioral Terms; Posters (3), Chicago, 2005. Hand, Reilly et al. poster; Role of selection, in Operants symposium; Sources of novel behavior (Spanish International session); Dinsmoor Memorial Symposium, Atlanta 2006; Tutorial: Our technical vocabulary of discrimination: potential side-effects; Panel, Verbal behavior at 50, San Diego 2007; EAHB SIG Distinguished Career Award, The origins & consequences of fictional verbal entities, Chicago 2008; Chair, Symposium on developing verbal behavior: Tact & intraverbal; Panelist, Survival of behavior analysis, Phoenix 2009; Award Address: Behavior analysis as a biological science; Address: Behavior analysis & ethics of contemporary cultures; Panelist, Live in the classroom?: The future of class demonstrations, Verbal Behavior workshop, San Antonio 2010; Dueling baselines, in Symposium, Paradigm clashes within behavior analysis; Verbal Behavior workshop, Denver 2011; Behavior Side Story; Invited address: Concept of inhibition in the analysis of behavior; Panelist: Culturally & linguistically diverse variables, Seattle 2012; Invited address: Science of learning & art of teaching revisited; Workshop, ABCs of behavior analysis, Minneapolis 2013; Workshops: ABCs of behavior analysis, Verbal behavior; Tutorial: Delay of reinforcement, Chicago 2014; Invited tutorial: Why behavior analysts should care about sensory psychology. San Antonio, 2015; Poster; Symposia on selection, on verbal behavior. Chicago, 2016. Tutorial: I forgot the name of this talk. Aesthetic Behavior: Creating & Appreciating Art, in Symposium, Behavior Analysis & Aesthetics, Denver, 2017.

American Psychological Association: Operant extinction and the concept of inhibition, In Symposium: Current status of central inhibition. New York 1961; On being behavioral in nonbehavioral places. Div 25 Presidential Address (B.F. Skinner, Chair; Fall 1979 *Div 25 Recorder*, 14(4), 2-3), Toronto Aug 1978; (Div 3 New Fellows Address) Productivity, sequential coordination and deep structure in nonverbal discriminations, Los Angeles Aug 1981; The language of reinforcement: Some raids on the inarticulate, In Memorial Symposium for C. B. Ferster. Washington DC Aug 1982; Invited addresses, Creating new behavior: Interactions between verbal behavior and nonverbal contingencies; Selection of behavior: The new selectionist paradigm for psychology, Centennial Convention, Washington DC Aug 1992; What every psychologist needs to know about reinforcement, Div 25 Presidential Address, Chicago Aug 1997; Master lecture on animal learning: Reinforcement isn't everything but extinction isn't anything; Div 25 Hake award address: Behavior synthesis: creation of new behavior through selection. Chair, Symposium on Thorndike's Centennial legacy. San Francisco Aug 1998. Invited address, Division 25: The operant reserve and its implications for ADHD. Washington DC Aug 2005.

American Psychological Society: Verbal behavior, selection, and intentional systems, In Symposium: Some connections and parallels in the biobehavioral sciences, 1st annual meeting, Alexandria VA Jun 1989.

British Experimental Analysis of Behaviour Group: Exeter Mar 1980; Cambridge Mar 1982; Manchester Mar 1987; London Mar 1993, Apr 1995 (invited papers); Verbal behaviour and discriminations of one's own behavior: Phylogenetic and ontogenic origins of language. London Apr 1992.

European Experimental Analysis of Behaviour meetings, invited papers: Liege Jul 1983, Jul 1988; Dublin 1997: Keynote Address, What every behavior analyst needs to know about reinforcement. Amiens Jul 2000: Paper in Memorial Symposium for Ullin Place. European Association for Behavior Analysis (First meeting). Verbal behavior: Antecedents and consequences (Keynote Address), Parma Jul 2003.

Maryland ABA: Opening address: Experimental and applied behavior analysis, 1st annual meeting, Baltimore Oct 1998; Poster, UMBC ABA MA, Baltimore, Oct 1999-2002; Invited address (with Shimoff). Experiments on college teaching from a behavioral perspective. Baltimore Oct 2000; Invited address. Everything you wanted to know about delay of reinforcement but were afraid to ask, Baltimore Oct 2001; Presidential remarks, Symposium on graduate programs in behavior analysis, Baltimore Oct 2002; (with Poerstel, Serdikoff, Shulleeta) Using the SHR rat as a model to examine delay of reinforcement in ADHD (poster), Baltimore Dec 2004. Invited address: Behavior analysis and the ethics of human cultures, Baltimore Dec 2010.

Behavior Analysis Association of Michigan: Keynote address: Words and other behavior, Ypsilanti Feb 2005.

Tennessee ABA: Invited lectures, Delay of reinforcement, the operant reserve, and ADHD; Our vocabulary of discrimination: Social and political side-effects. Nashville Oct 2006.

Virginia ABA: Invited lecture, Applying a computer simulation of the operant reserve to the analysis of ADHD. Harrisonburg Mar 2006.

NCABA, Invited address, Winston-Salem Feb 2014.

BABAT: Invited address, Behavior analysis and the ethics of contemporary cultures. Amherst Oct 2010; Commentator, Azrin award, Oct 2011; Award address, Workshop Oct 2013; Workshop, Oct 2014; Workshop on Verbal Behavior (with M. Sundberg); Tutorial on Sensory Processes, Oct 2015: Tutorial on memory, I forgot the name of this talk, Oct 2016.

Society for Quantitative Analyses of Behavior: (with Shimoff) A reinforcement paradox: Reinforcement of response property R on Trial N does not raise the probability of R on Trial N+1, Chicago, May 1993; Responses and time in the quantitative analysis of the delay-of-reinforcement gradient, San Francisco, May 1996; (Poster, with T. Sagvolden & H. Aase) Delay of reinforcement and the hyperactivity syndrome, Chicago, May 1997; (Poster, with E. Shimoff & L. Kowalsky) Delay of reinforcement and reinforcement magnitude, Chicago, May 1999; Delay of reinforcement and the operant reserve, New Orleans, May 2001 (Poster). The operant reserve: A simulation, San Francisco, May 2003 (Poster). The operant reserve: A computer simulation in (accelerated) real time. Boston, May 2004. Delayed reinforcement of an observing response (poster), Chicago, May 2005; Creating artificial behavior: A tutorial on modeling, Atlanta, May 2006.

Eastern Psychological Association: Significance of nonhuman research in analysis of human behavior (Invited address), Philadelphia, Mar 1990; Symposia, Regarding B. F. Skinner; Higher-order classes and language (Chair and participant), New York, Apr 1991; Keller & Schoenfeld symposium, Washington, DC, Apr 1997; Keller symposium, Baltimore, Apr 2006; Invited address: Our technical vocabulary of discrimination: Potential social and political side-effects. Philadelphia, Mar 2007.

Language Origins Society: Phylogenetic, ontogenic and cultural selection of language: What are the units of selection? St. Petersburg, Russia, July 1993; Paper, Berkeley, CA, Jul 1994; Introductory Address, UMBC, Jul 1996; Language evolution: the long and the short of it. Tallahassee, FL, Jun 1998.

Other Venues

Conditioned Reinforcement Conference (discussant). U Chicago, Chicago Circle, 1967; Invited address, IBR, Bethesda, MD, Feb 1968; Committee on Drug Abuse and Habitual Behavior Conference, Natl Research Council (discussant). Washington, DC, Jun 1979.

Primer Simposio Bial sobre Ciencia de la Conducta: Conducta Humana y Lenguaje. (Invited paper). Univ Nacional Autonoma de Mexico, Feb 1982.

(with D. Dennett). Invited Session on consciousness and the bicameral mind (J. Jaynes). (Discussant). Soc Phil Psychol, Johns Hopkins Univ, Jun 1986.

How language insulates behaviour from its consequences (with E. Shimoff, B. A. Matthews: *Proceedings, Annual Meeting British Psychol Soc*, 1987, 4); Free-choice preference: explorations of stimuli, parameters,

contingencies (with D. de Souza, K. Ono, D. Cerutti). U Leeds, Liverpool, Southampton, Exeter, Surrey (Guildford), Liege, Oslo, Messina; Gregynog, Tregynon, Wales; Trinity Coll Dublin; Goldsmiths' Coll London; Ruhr U Bochum; Catholic Univ Nijmegen; Netherlands Inst Brain Research; Catholic U Tilburg; U Sussex; Behav Analysis in Ireland, U Coll Galway; Oct 1986-Jun 1987.

Recent trends in analysis of verbal behavior (Symposium). 18a Reuniao Anual de Psicologia, Campus USP - Riberiao Preto, Brasil, Oct-Nov 1988.

Higher-order classes & novel behavior; Functional properties rule-governed behavior; New selectionist paradigm for behavior. (Invited addresses). European Congress Behav Therapy, Oslo, Sep 1991.

Invited address. Advantages and disadvantages of verbal behavior. Northern California ABA, San Francisco, Mar 1990; Invited address. The language of discrimination; Workshop. Delay of reinforcement, the operant reserve, and ADHD. CalABA, Garden Grove, CA, Feb 2008.

Invited address with E. Shimoff & B. A. Matthews. Educational software and academic contingencies, Southeastern ABA, Asheville, NC, Oct 1992.

Visiting lectures: U Oslo, Mar 1980, Jun 1993; Drake U, May 1980; U Mexico, Oct 1980; U Sao Paulo, U Brasilia, Oct-Nov 1988; U Tromsø, Jun 1993; U Akron, 2003; Colloquium, Cognitive Sciences Centre, U Southampton, Apr 1995; U Iceland; U Reykjavik, Aug 2004.

Natural selection and artificial selection in verbal behavior. 4th Int'l Inst. on Verbal Relations, Fuji-Yoshida, Yamanashi, Japan; Invited lecture, Verbal behavior and knowledge. Komazawa Univ; Invited address, Some parallels between Darwin's natural selection and Skinner's operant selection. Round Table Discussant: Strategies for animal language research. Japanese Soc Animal Psychol, Tokyo, Jul-Aug 1992; Delay of reinforcement, the operant reserve, and ADHD; Words as behavior. J-ABA, Rikkyo Univ, Tokyo, Japan, Aug 2007.

Extinction, response-independent reinforcement, and variably delayed reinforcement. Symposium in Honor of Professor Emeritus Lewis Gollub. College Park, MD, Sep 1994.

Reinforcement, beliefs, and verbal behavior. In the conference, Advances in Cognitive Behavior Therapy, Aguas de Lindoia, Brazil, Jul 1998.

Verbal Governance. In the conference, Behavior: Theory and Philosophy. WVU, Morgantown, Apr 2000.

Invited presentation, Int'l Life Sciences Inst. meeting, Behavior and Obesity, Washington, DC, Dec 2000.

The evolution of language function. Fourth International Conference on the Evolution of Language, Harvard University, March 2002 (Proceedings, p. 21).

Invited presentations, ADHD International Conference at Norwegian Center for Advanced Study, Oslo;

Invited lecture, Delay-of-reinforcement gradients and ADHD: Theory and Applications. Kennedy Krieger Institute Distinguished Scientist Lecture Series, Baltimore, Jan 2005.

Invited presentation, Centre for Advanced Study, Conference on ADHD, Tromsø, Norway, Dec 2005.

Keynote address, From theoretical basics to real-world applications, 34th Annual Western Pennsylvania Undergraduate Psychology Conference, Gannon University, Erie, PA, Apr 2006.

Idaho State University teleconference seminar, Jan 2007.

University of North Texas Conference on the History of Applied Behavior Analysis, April 2008.

Invited ΦBK lecture: Green/Red, Black/White, Pink/Blue, and Other Discriminations. UMBC, Oct 2008.

Presentations on verbal behavior, Baltimore Secular Humanists, UMBC Student Secular Alliance, 2011-

Invited talk: Getting people to say it makes them more likely to do it – Say-do correspondences and the shaping of verbal behavior. Washington Area Secular Humanists, Chevy Chase, MD, May 2013.

What Ingersoll said. Presentation in Robert Ingersoll Oratory Contest, Washington DC June 2013.

National Autism Conference Tutorials, State College, PA: The ABCs of Verbal Behavior, Aug 2016; The ABCs of Behavior Analysis, Aug 2017; Stimulus Control: Implications for Verbal Behavior, Social Contingencies and Education, Aug 2018; A Brief History of Behavior Analysis and Its Applications to Autism in the Twentieth Century.

ABACNJ Webinars, 2018: What behavior analysis has to say about discrimination and prejudice (Mar); The ABCs of verbal behavior (May); The evolution of a science and its applications (Aug); Verbal behavior, Parts I and II (Oct).

Mexican Association for Behavior Analysis videoconference, On discrimination and prejudice, Oct 2018.

SELECTED ACKNOWLEDGMENTS

In: Skinner, B. F. (1977). Herrnstein and the evolution of behaviorism. *American Psychologist*, **32**, 1006-1012.

In: Natochin, Yu. V., & Chernigovskaya, T. V. (1997). Evolutionary physiology: History, principles. *Comparative Biochemistry and Physiology, Part A*, **118**, 63-97.

In: Provine, R. R. (2000). *Laughter: A Scientific Investigation*. New York: Viking.

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