

A(nthony) Charles Catania

Curriculum Vitae

January 2025

psychology.umbc.edu/people-2/emeritus-faculty/catania

en.wikipedia.org/wiki/A._Charles_Catania

Date of Birth, New York, NY: 22 June 1936.

Married: Constance Julia Britt, 10 February 1962.

Children: William John, 3 February 1964 - 12 September 2019 (www.imdb.com/name/nm1819543/).

Kenneth Charles, 5 November 1965 (en.wikipedia.org/wiki/Kenneth_C._Catania).

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, Distinction in Psychology.

M.A., Columbia University, 1958.

Ph.D. in Psychology, Harvard University, 1961 (March). National Science Foundation Fellow, 1958-60.

Professional History

NYC Hospital System (Harlem Hospital; Bronx Municipal Hospital Center):

Summer temp (OPD, ward attendant, etc.): 1952-57.

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, Department Chair, 1969-73.

University of Maryland, Baltimore County (UMBC):

Professor, 1973-2008; Program Director/Co-Director, 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.

Verbal Beginnings, An ABA Therapy Clinic, Columbia, MD: Behavior Analysis Mentor, March 2022- .

Oslo Metropolitan University, Oslo, Norway: Doctor Honoris Causa, June 2022.

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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 & 85-06724, 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.
 British Council Fellowship, 1986.
 Fulbright Senior Research Fellowship (US - UK); James McKeen Cattell Sabbatical Award, 1986-87; First Prize, Fulbright British-English – 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.
 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.
 Second Prize, Real Estate Board of New York Essay Contest, *What the Bill of Rights means to me*, 1952.
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. Most cited or 2nd most cited in UMBC Psychology Dept in *ResearchGate*.

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; Guest Associate Editor, 2022.
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.
 Boards 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: Board of Directors, 1997-1998; Program Chair, 1996 Annual Meeting.

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; TVIH The Village People: Telling Our Stories Group; presentations on memory, sensory systems, memoir, etc.

TEACHING**As Postdoctoral Fellow (1961-62)**

Comparative Psychology; Seminar in Comparative Psychology; Operant demonstrations for Skinner's undergraduate course, 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 (2010-11): Technical writing workshop.

At Ohio State University (2013-17): Master's degree research via Skype.

Participation in courses online at various institutions.

Online webinars and interviews: ABAC, BDS, Verbal Beginnings, enGrama, etc.: Various, on-going.

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.

Other service included 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*. 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*. Irvington.
- Catania, A. C. (1979). *Learning*; (1984). *Learning* (2nd ed.); (1992). *Learning* (3rd ed.). Prentice-Hall; (1998). *Learning* (4th ed.). Prentice-Hall. [Portuguese edition: (1999) *Aprendizagem* (D. d. G. de Souza, trans.). Editora Artes Medicas]; (2006). *Learning* (Interim [4th] ed.); (2013). *Learning* (5th ed.). Sloan.
- Catania, A. C., & Harnad, S. (Eds.). (1988). *The selection of behavior: the operant behaviorism of B. F. Skinner*. 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*. Society for the Experimental Analysis of Behavior.
- Laties, V. G., & Catania, A. C. (Eds.) (1999). *B. F. Skinner's Cumulative record* (Definitive Edition). B. F. Skinner Foundation.
- Catania, A. C. (Ed.) (2000) *William S. Verplanck glossary/thesaurus of behavioral terms* (CD-ROM). CMS Software.
- Bailey, J., Burch, M., Catania, A. C., & Michael, J. (Eds.) (2008). *At my own pace: The autobiography of Fred S. Keller*. Sloan.
- Catania, A. C. (2017; 2nd edition in preparation). *The ABCs of behavior analysis: An introduction to behavior and learning*. Sloan.
- 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*. Sloan.
- Catania, A. C., & St. Peter, C. (in preparation). *On our own terms: The words of behavior analysis*. Sloan.
- Catania, A. C. (Ed., in preparation). *Language, freedom, evolution, behavior: The Chomsky-Catania dialogues*. Sloan and enGrama.
- Catania, A. C., & Stahlman, W. D. (in preparation). *The selectionists and their critics*.

Chapters and Encyclopedia Articles

- Catania, A. C. (1966). Concurrent operants. In W. K. Honig (Ed.), *Operant behavior: Areas of research and application* (pp. 213-270). 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). 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). Addiction Research Foundation (Toronto).
- Catania, A. C. (1971). Discriminative stimulus properties of drugs: Interpretations I. In T. Thompson & R. Pickens (Eds.), *Stimulus properties of drugs* (pp. 149-155). Appleton-Century-Crofts.
- Catania, A. C. (1971). Elicitation, reinforcement and stimulus control. In R. Glaser (Ed.), *The nature of reinforcement* (pp. 196-220). 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). 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). Kindler Verlag (Zurich).
- Catania, A. C. (1980). Operant theory: Skinner. In G. M. Gazda & R. Corsini (Eds.), *Comparative theories of learning* (pp. 135-177). IF. 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). 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). 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). 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). Wiley. [Reprinted in translation: Anguera, M. T., & Veà, J. J. (Eds.) (1984). *Conducta animal y representaciones mentales*. Promociones Publicaciones Universitarias (Barcelona)]
- 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). 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). 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). Erlbaum.
- Catania, A. C. (1987). Instrumental conditioning. *McGraw-Hill Encyclopedia of science and technology* (6th ed.), Vol. 9 (ICE-LEO), (pp. 228-229). McGraw-Hill.
- 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). 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). 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). 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). Elsevier.
- Catania, A. C. (1991). Glossary. In I. H. Iversen & K. A. Lattal (Eds.) *Experimental analysis of behavior. Part 2*. (pp. G1-G44). Elsevier.
- Catania, A. C. (1992). Reinforcement. In L. Squire (Ed.) *Encyclopedia of learning and memory*. (pp. 558-562). Macmillan.
- 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). Context Press.
- Catania, A. C. (1994). Natural selection. In R. J. Corsini (Ed.), *Encyclopedia of psychology* (2nd ed.) (Vol. 2, pp. 452-455). Wiley.
- 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). 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). 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). 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). Plenum.
- 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-LEARN* (498-499). APA / Oxford University Press.
- 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). 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). Peter Lang.
- Catania, A. C. (2002). Skinner, Burrhus Frederic. *Encyclopedia of cognitive science*. Macmillan.
- 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). Kluwer/Academic Press.

- Catania, A. C. (2008). Pavlov, Ivan; Skinner, B. F. *International Encyclopedia of the Social Sciences* (2nd ed.). Macmillan. (online encyclopedia)
- 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). Guilford.
- Catania, A. C. (2011, 2017). Charles B. Ferster. In F. L. Volkmar (Ed.), *Encyclopedia of Autism Spectrum Disorders*. Springer. (online encyclopedia)
- 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). 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). Cambridge Center for Behavioral Studies.
- Catania, A. C. (2018). A behavior analytic perspective on discrimination and prejudice. In the proceedings of the 28th Congress of the Mexican Conference on the Analysis of Behavior, Veracruz, published as *En análisis de la conducta en México: Investigación y aplicaciones 2018* (pp. 11-28). Sociedad Mexicana de Análisis de la Conducta.
- Stahlman, W. D., & Catania, A. C. (2019). Evolutionary biology and the natural selection of behavior. In Morris, E. K., & McKeerchar, P. (Eds.), *Encyclopedia of Child and Adolescent Development*. Wiley.
- Catania, A. C. (2021). Basic operant contingencies: Main effects and side effects. In Fisher, W. W., Piazza, C. C., & Roane, H. S. (Eds.). *Handbook of Applied Behavior Analysis (2nd ed.)* (pp. 37-57). Guilford.
- Catania, A. C. (2021). Foreword (pp. ix-xi). In N. Hirschhorn, *To heal the world*. Sloan.
- Catania, A. C. (2024). Connections: A foreword. In L. Marohnik, *A cosmologist's progress (From something to nothing and vice versa)* (pp. xiii-xviii). Sloan.

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. doi.org/10.1002/jeab.1961.4-335 (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. doi.org/10.1002/jeab.1961.4-387
- 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. doi.org/10.1002/jeab.1962.5-175
- 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]
- Catania, A. C. (1962). Solution to a weighty problem. *Journal of the Experimental Analysis of Behavior*, **5**, 480. doi.org/10.1002/jeab.1962.5-480
- 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. doi.org/10.1002/jeab.1963.6-203
- Catania, A. C. (1963). Concurrent performances: Reinforcement interaction and response independence. *Journal of the Experimental Analysis of Behavior*, **6**, 252-263. doi.org/10.1002/jeab.1963.6-253
- Catania, A. C. (1963). Concurrent performances: A baseline for the study of reinforcement magnitude. *Journal of the Experimental Analysis of Behavior*, **6**, 299-300. doi.org/10.1002/jeab.1963.6-299
- 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. doi.org/10.1002/jeab.1963.6-627

- Catania, A. C. (1964). On the visual acuity of the pigeon. *Journal of the Experimental Analysis of Behavior*, *7*, 361-366. doi.org/10/1002/jeab.1964.7-361 [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. doi.org/10/1002/jeab.1965.8-147
- Catania, A. C. (1965). Stealing from pigeon feeders: A preventive measure. *Journal of the Experimental Analysis of Behavior*, *8*, 324. doi.org/10/1002/jeab.1965.8-324
- 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. doi.org/10/1002/jeab.1966.9-227
- Riddle, W. C., Rednick, A. B., Catania, A. C., & Tucker, S. J. (1966). Complete squirrel monkey diet in tablet form. *Journal of the Experimental Analysis of Behavior*, *9*, 670. doi.org/10/1002/jeab.1966.9-670
- 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. doi.org/10/1002/jeab.1968.11-327 [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. doi.org/10/1002/jeab.1969.12-731 [Reprinted: P. B. Dews (Ed.) (1970). *Festschrift for B. F. Skinner* (pp. 170-183). New York: Appleton-Century-Crofts]
- Catania, A. C. (1969). On the vocabulary and the grammar of behavior. *Journal of the Experimental Analysis of Behavior*, *12*, 845-846. doi.org/10/1002/jeab.1969.12-845
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- Engrama (2022 Dec - 2023 Jul). Chomsky and Catania: Language and verbal behavior I (Engrama YouTube episode 100); II (episode 110); III (episode 120); IV (episode 140) [Videos]. www.youtube.com/watch?v=VhMPBL3O-ag; www.youtube.com/watch?v=9bwLMXob-AI; www.youtube.com/watch?v=EhhEOzQ82k4; <https://www.youtube.com/watch?v=WWy30tq5qds>.
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- Catania, A. C. (2023-2024). A behavior analyst talks about. . . . [YouTube webinars] www.bds.com/a-behavior-analyst-talks-about. Behavior Development Solutions.
- Catania, A. C. (2024, Oct). To change human behavior, shape what people say, not what they do. *Verbal Behavior SIG* webinar.

Presentations (rft=reinforcement)

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 rft 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 rft, hyperactivity & attention deficit, Symposium: Developmental implications of rft 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; Address: When words rule, Discussant, Toronto 2002; Verplanck Panel Chair, San Francisco 2003; Antecedents & consequences of words (Japanese & Portuguese International sessions), Boston 2004; 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; Panel, Verbal behavior at 50, San Diego 2007; EAHB SIG Distinguished Career Award, 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; Address: Concept of inhibition in behavior analysis; Panelist: Culturally & linguistically diverse variables, Seattle 2012; 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; Tutorial: Why behavior analysts should care about sensory psychology. San Antonio, 2015; Poster; Symposia on selection, 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 rft: Some raids on the inarticulate, In Memorial Symposium for C. B. Ferster. Washington DC Aug 1982; 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 rft, Div 25 Presidential Address, Chicago Aug 1997; Master lecture on animal learning: Rft 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. 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 (papers); Verbal behaviour and discriminations of one's own behavior: Phylogenic and ontogenic origins of language. London Apr 1992.

European Experimental Analysis of Behaviour meetings, 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; Address (with Shimoff). Experiments on college teaching from a behavioral perspective. Baltimore Oct 2000; Address. Everything you wanted to know about delay of rft 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 model to examine delay of reinforcement in ADHD (poster), Baltimore, Dec 2004. 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: Delay of reinforcement, the operant reserve, and ADHD; Our vocabulary of discrimination: Social and political side-effects. Nashville Oct 2006. Virginia ABA: Applying computer simulation of the operant reserve to analysis of ADHD. Harrisonburg Mar 2006. NCABA, Address, Winston-Salem Feb 2014.

BABAT: Address, Behavior analysis & contemporary cultural ethics. 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; Workshop, Evolution of a science; Address, Discrimination/prejudice, Oct 2019.

Society for Quantitative Analyses of Behavior: (with Shimoff) A rft paradox: Rft of response property R on Trial N does not raise probability of R on Trial N+1, Chicago, May 1993; Responses & time in the quantitative analysis of the delay-of-rft gradient, San Francisco, May 1996; (Poster, with Sagvolden & Aase) Delay of rft and the hyperactivity syndrome, Chicago, May 1997; (Poster, with E. Shimoff & L. Kowalsky) Delay of rft and rft magnitude, Chicago, May 1999; Delay of rft and the operant reserve, New Orleans, May 2001 (Poster). The operant reserve: A smulation, San Francisco, May 2003 (Poster). The operant reserve: A computer simulation in (accelerated) real time. Boston, May 2004. Delayed rft 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 analyses 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: Phylogenic, 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.

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, Aug 2019; Case histories in the union of basic and applied research, Aug 2020; Shaping what teachers say changes what teachers do in the classroom, Aug 2021. Are extinction, punishment and other aversive procedures becoming obsolete? Aug 2022.

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.

- Recent trends in analysis of verbal behavior (Symposium). 18a Reuniao Anual de Psicologia, CampusUSP - Riberao Preto, Brasil, Oct-Nov 1988.
- 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.
- Higher-order classes & novel behavior; Functional properties of 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 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 Evolution of Language, Harvard University, March 2002 (Proceedings, p. 21).
- Invited presentations, ADHD International Conference at Norwegian Center for Advanced Study, Oslo; 2004
- 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.
- ABACNJ Webinars: What behavior analysis has to say about discrimination and prejudice (Mar 2018, Mar 2019); The ABCs of verbal behavior (May 2018); The evolution of a science and its applications (Aug 2018). BDS Webinars: ABCs; ADHD; Politics, Lies and Verbal Behavior; Schedules, etc. (2022-).
- Verbal Beginnings in Columbia, MD, Webinars: The ABCs of behavior analysis (October 2020), ongoing.
- Behavior Development Solutions. (2023-2024). A behavior analyst talks about.... [YouTube webinars] www.bds.com/a-behavior-analyst-talks-about.
- Verbal Behavior SIG webinar: To change human behavior, shape what people say, not what they do (October 2024).

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.
- In: Teske, S. M. (2016). *Oh no, Henry!* Herndon, VA: Mascot Books.
- In: Catania, K. (2020). *Great Adaptations*. Princeton: Princeton University Press.
- In: Stahlman, W. D., & Leising, K. J. (2024). The behavioral origins of phylogenetic responses and ontogenic habits. *Journal of the Experimental Analysis of Behavior*, **121**, 27-37. doi: 10.1002/jeab.892

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01/08/2025