

VITA

Albert R. Cavalier, Jr.

2016

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EDUCATION

- B.A. University of Notre Dame, magna cum laude
1968-1972 Major: Psychology, concentrating in mental retardation
- M.A. University of Alabama, Department of Psychology
1974-1977 Primary area: Mental retardation.
- Ph.D. University of Alabama, Department of Psychology
1977-1980 Primary area: Developmental disabilities
Secondary area: Child development.

PROFESSIONAL POSITIONS

- 1973-1974 Psychiatric Technician/Security Specialist and Ward Charge, Lincoln State Hospital for the Mentally Ill, Lincoln, Nebraska. Responsibilities: daily operation of the ward for the 24 most aggressive psychiatric clients in the maximum security unit of the state of Nebraska.
- 1979-1981 Coordinator of Program Services, Partlow State School and Hospital, Tuscaloosa, Alabama. Responsibilities: (a) coordination of the educational system for approximately 450 persons with mental retardation residing in a residential institution; (b) development of educational programs for self-help, independent living, and recreational skills and for managing stereotyped and disruptive behavior; and (c) teaching inservice training courses for professional and para-professional staff.
- 1980-1982 Adjunct Assistant Professor, Department of Psychology, The University of Alabama, University, Alabama. Responsibilities: teaching undergraduate courses and serving on thesis committees.
- 1981-1982 Program Director, The Warrior Center, Tuscaloosa, Alabama. Responsibilities: (a) overall planning and development of the educational system for a new residential center for 192 children and adults with mental retardation; (b) supervision of the educational activities of the special education, psychology, speech therapy, and recreational therapy professionals; (c) development of the inservice training and staff development system;

and (e) design and coordination of an automated environment for persons with severe and profound mental retardation.

1982-1989 Director, Bioengineering Program, Department of Research and Program Services, National Headquarters of the Association for Retarded Citizens of the United States. Responsibilities: initiation and administration of a program to explore the design and development of advanced technology to facilitate the independence, learning, and productivity of children and adults with cognitive disabilities.

1989-present Associate Professor, School of Education, University of Delaware. Responsibilities: teaching, research, and service as a faculty member of doctoral programs in special education and educational technology, masters programs in special education, and a bachelor's program in elementary teacher education.

1990-1999 Co-Director, The Summer Institute in Educational and Assistive Technology, the University of Delaware. Responsibilities: administering a variety of graduate courses in the areas of educational and assistive technology.

1991-1998 Director, Center for Assistive and Instructional Technology, College of Education, the University of Delaware. Responsibilities: planning and administering center functions to support research and teaching related to the use of advanced technology.

1998-2008 Coordinator, The Special Education Technology Laboratory, School of Education, the University of Delaware. Responsibilities: planning and administering laboratory functions to support teaching and research related to the use of assistive technology by clinicians in applied settings.

PUBLICATIONS

Journal Articles, Book Chapters, and Manuscripts

Ellis, N. R., McCartney, J. R., Ferretti, R. P., & Cavalier, A. R. (1977). Recognition memory in mentally retarded persons. *Intelligence, 1*, 310-317.

Cavalier, A. R., & Ferretti, R. P. (1980). Stereotyped behavior, incompatible behavior, and collateral effects: A comparison of four intervention procedures. *The Journal of Mental Deficiency Research, 24*, 219-230.

Cavalier, A. R., & McCarver, R. B. (1981). Wyatt v. Stickney and the mentally retarded. *Mental Retardation, 19*(5), 209-214.

Cavalier, A. R., & McCarver, R. B. (1981). Mentally retarded persons and the Wyatt case: Historical perspectives and current controversies. In R. P. Parlour & L. R. Jones (Eds.), *Wyatt v. Stickney: Retrospect and prospect*. New York: Grune & Stratton.

- Konarski, E. A., Jr., & Cavalier, A. R. (1982). Current models of psychopathology. In J. L. Matson & R. P. Barrett (Eds.), *Psychopathology in the mentally retarded*. New York: Grune & Stratton.
- Ellis, N. R., Deacon, J. R., Harris, L. A., Poor, A., Angers, D., Diorio, M. S., Watkins, R. S., Boyd, B. D., & Cavalier, A. R. (1982). Learning, memory, and transfer in profoundly, severely, and moderately mentally retarded persons. *American Journal of Mental Deficiency, 87*(2), 186-196.
- Ellis, N. R., & Cavalier, A. R. (1982). Research perspectives in mental retardation. In E. Zigler & D. Balla (Eds.), *Mental retardation and the developmental-difference controversy*. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Ferretti, R. P., & Cavalier, A. R. (1983). A critical assessment of overcorrection procedures with mentally retarded persons. In J. L. Matson & F. Andrasik (Eds.), *Treatment issues and innovations in mental retardation*. New York: Plenum Press.
- McCarver, R. B., & Cavalier, A. R. (1983). Philosophical concepts and attitudes underlying programming for the mentally retarded. In J. L. Matson & F. Andrasik (Eds.), *Treatment issues and innovations in mental retardation*. New York: Plenum Press.
- Mineo, B. A., & Cavalier, A. R. (1985). From idea to implementation: The development of cognitive software for persons with developmental disabilities. *Journal of Learning Disabilities, 18*(10), 613-618.
- Cavalier, A. R., & Mineo, B. A. (1987). The application of technology in the classroom and workplace: Unvoiced premises and ethical issues. In A. Gartner & T. Joe (Eds.), *Images of the disabled / Disabling images*. New York: Praeger.
- Ferretti, R. P., & Cavalier, A. R. (1991). Constraints on the problem solving of persons with mental retardation. In N. W. Bray (Ed.), *International review of research in mental retardation*. (Vol. 17). New York: Academic Press.
- Brown, C. C., & Cavalier, A. R. (1992). Voice recognition technology and persons with severe mental retardation and severe physical impairment: Learning, response differentiation, and affect. *Journal of Special Education Technology, 11*(4), 196-206.
- Brown, C. C., Cavalier, A. R., Sauer, M., & Wyatt, C. (1992). The sound-to-speech translation system utilizing photographic-quality graphic symbols. *The APL Technical Digest, 13*(4), 482-489.
- Schoech, D., Cavalier, A. R., & Hoover, B. (1993). A model for integrating technology into a multi-agency service delivery system. *Assistive Technology, 5*(1), 11-23.
- Schoech, D., Cavalier, A. R., & Hoover, B. (1993). Using technology to change the human services delivery system. *Administration In Social Work, 17*(2), 31-52.

- Ferretti, R. P., Cavalier, A. R., Murphy, M. J., & Murphy, R. (1993). The self-management of skills by persons with mental retardation. *Research in Developmental Disabilities, 14*, 189-205.
- Cavalier, A. R., Ferretti, R. P., & Okolo, C. M. (1994). Technology and individual differences. *Journal of Special Education Technology, 12*(3), 175-181.
- Cavalier, A. R., & Ferretti, R. P. (1996). Talking instead of typing: Alternate access to computers via speech recognition technology. *Focus on Autism and Other Developmental Disabilities, 11*(2), 79-85.
- Cavalier, A. R., Ferretti, R. P., & Hodges, A. E. (1997). Self-management within a classroom token economy for students with learning disabilities. *Research in Developmental Disabilities, 18*(3), 167-178.
- Cavalier, A. R., & Brown, C. C. (1998). From passivity to participation: The transformational possibilities of speech recognition technology. *Teaching Exceptional Children, 30*(6), 60-65.
- Cook, A., & Cavalier, A. R. (1999). Young children using assistive robotics for discovery and control. *Teaching Exceptional Children, 31*(5), 72-78.
- MacArthur, C. A., Ferretti, R. P., Okolo, C. M., & Cavalier, A. R. (2000). Technology applications for students with literacy problems: A critical review. *The Elementary School Journal, 101*(3), 273-301.
- Okolo, C. M., Cavalier, A. R., Ferretti, R. P., & MacArthur, C. A. (2000). Technology, literacy, and disabilities: A review of the research. In R. Gersten, E. Schiller, & S. Vaughn (Eds.), *Research syntheses in special education*. Mahwah, NJ: Lawrence Erlbaum.
- Bear, G. G., Cavalier, A. R., & Manning, M. A. (2002). Best practices in school discipline. In A. Thomas & J. Grimes (Eds.), *Best practices in school psychology* (pp. 977-991). 4th Ed. Washington, DC: National Association of School Psychologists.
- MacArthur, C. A., & Cavalier, A. R. (2004). Dictation and speech recognition technology as accommodations in assessments for students with learning disabilities. *Exceptional Children, 71*(1), 43-58.
- Cavalier, A. R. (2005). Behavior reduction techniques for correcting misbehavior. In G. G. Bear, *Developing self-discipline and preventing and correcting misbehavior* (pp. 251-280). Boston: Pearson Education.
- Cavalier, A. R., & Bear, G. (2005). Behavior replacement techniques for correcting misbehavior. In G. G. Bear, *Developing self-discipline and preventing and correcting misbehavior* (pp. 225-250). Boston: Pearson Education.

- Cavalier, A. R., & Ferretti, R. P. (2006). The preparation of rural special education teachers via two-way interactive compressed video. In M. Girod & J. P. Sneed (Eds.), *Technology in the college classroom: Teacher education*. Stillwater, OK: New Forums Press.
- Mouza, C., Cavalier, A. R., & Nadolny, L. (2008). Implementation and outcomes of a laptop initiative in career and technical high school education. *Journal of Educational Computing Research*, 38(4), 411-452.
- Obrusnikova, I., & Cavalier, A. R. (2011). Perceived barriers and facilitators of participation in after-school physical activity by children with autism spectrum disorders. *Journal of Developmental and Physical Disabilities*, 23(3), 195-211.
- Obrusnikova, I., Bibik, J. M., Cavalier, A. R., & Manley, K. J. (2012). Integrating therapy dog teams in a physical activity program for children with autism spectrum disorders. *Journal of Physical Education, Recreation and Dance*, 83(6), 37-48.
- Mouza, C., & Cavalier, A. (2012). The role of laptop computers in the education of at-risk high school students (pp.145-160). In C. Mouza & N. Lavigne (Eds.), *Emerging technologies for the classroom: A learning sciences perspective*. New York: Springer Publishing Company.
- Obrusnikova, I., & Cavalier, A. R. (accepted for publication). The effects of video modeling on fundamental motor skill performance of preschool children. *Early Childhood Education Journal*.
- Obrusnikova, I., & Cavalier, A. R. (under review). The effectiveness of video modeling in teaching a fundamental motor skill to children with intellectual disabilities. *Journal of Developmental and Physical Disabilities*.
- Obrusnikova, I., & Cavalier, A. R. (in progress). The effect of the system of least-to-most prompting including video prompts on the acquisition of five muscle-strengthening tasks in adults with mild intellectual disabilities.

Patents

- J. A. Companion, J. S. Heyman, B. A. Mineo, A. R. Cavalier, & T. N. Blalock: Inventors. U.S. Patent Office, August 1, 1989, Patent No. 4,852,578: *Rapidly quantifying the relative distention of a human bladder*.

Peer Reviewed Articles in Published Conference Proceedings

- Brown, C. C., Cavalier, A. R., & Tipton, L. (1986). Increased independence through computerized voice recognition for persons who are severely physically involved and profoundly mentally retarded. In M. Donath, H. Friedman, & M. Carlson (Eds.),

Proceedings of the ninth annual conference on rehabilitation technology. Washington, DC: RESNA.

- Mineo, B. A., Cavalier, A. R., Companion, J., Heyman, J., Blalock, T., & Klein, F. A. (1986). A portable, non-invasive ultrasonic bladder sensor for incontinence. Proceedings of the eighth annual conference of the IEEE engineering in medicine and biology society. New York: Institute of Electrical and Electronics Engineers, Inc.
- Companion, J., Heyman, J. S., Blalock, T., Cavalier, A., Mineo, B., Klein, F., & Fox, L. (1986). Bladder distention sensor for the handicapped. Proceedings of the IEEE ultrasonics symposium. New York: Institute of Electrical and Electronics Engineers, Inc. (Reprinted in Frontiers of engineering and computing in health care. Washington, DC: McGregor and Werner, Inc.)
- Mineo, B. A., & Cavalier, A. R. (1987). An ultrasonic bladder sensor for persons with incontinence. In R. D. Steele & W. Gerrey (Eds.), Proceedings of the tenth annual conference on rehabilitation technology. Washington, DC: RESNA.
- Brown, C. C., Cavalier, A. R., Mineo, B. A., & Buckley, R. (1988). The use of sound-to-speech translation and expansion with children and adults who are mentally retarded. In G. Fernie (Ed.), Proceedings of the international conference on the advancement of rehabilitation technology. Washington, DC: RESNA.
- Brown, C. C., Cavalier, A. R., Schoech, D., & Hoover, B. (1988). Computerized networking and a resource database to facilitate the integration of technology into a service delivery system. In G. Fernie (Ed.), Proceedings of the international conference on the advancement of rehabilitation technology. Washington, DC: RESNA.
- Mineo, B. A., & Cavalier, A. R. (1988). Learning to recall/recalling to learn: Effective software for teaching cognitive strategies. In G. Fernie (Ed.), Proceedings of the international conference on the advancement of rehabilitation technology. Washington, DC: RESNA.
- Cavalier, A. R., van der Walt, R., & Mineo, B. A. (1990). Stimulus and listener factors affecting the intelligibility of synthesized speech. In J. Presperin (Ed.), Proceedings of the thirteenth annual conference on rehabilitation and assistive technologies. Washington, DC: RESNA Press.
- Mineo, B. A., & Cavalier, A. R. (1990). Speech output technology in education and rehabilitation: Implications from behavioral research. Spechtech, 2(3), 68-75.
- Brown, C., Sauer, M., Cavalier, A., Frische, E., & Wyatt, C. (1991). The assistive dining device: A tool for mealtime independence. In J. J. Presperin (Ed.), Proceedings of the fourteenth annual conference on rehabilitation and assistive technologies. Washington, DC: RESNA Press.

- Brown, C., Kostraba, J. R., Cavalier, A., & Wyatt, C. (1991). Eyegaze and headpointing technology for children and adults with mental retardation. In J. J. Presperin (Ed.), Proceedings of the fourteenth annual conference on rehabilitation and assistive technologies. Washington, DC: RESNA Press.
- Brown, C., Sauer, M., Cavalier, A., & Wyatt, C. (1992). Sound-to-speech translation utilizing graphic symbols. In J. J. Presperin (Ed.), Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Toronto, Ontario, Canada. Washington, DC: RESNA Press.
- Cavalier, A. R., Ferretti, R. P., & Okolo, C. M. (1992). Hypermedia and the creation of knowledge that transfers to real-world situations: A review of anchored instruction with special needs learners. In J. J. Presperin (Ed.), Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Toronto, Ontario, Canada. Washington, DC: RESNA Press.
- Cavalier, A. R., & Ferretti, R. P. (1993). The use of an intelligent cognitive aid to facilitate the self-management of vocational skills by high school students with severe learning disabilities. In M. Binion (Ed.), Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Las Vegas, NV. Washington, DC: RESNA Press.
- Cavalier, A. R., & Gilmore, B. (1995). The use of self-observation via audiotapes and computer spreadsheets to improve oral reading. In A. Langton (Ed.), Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Vancouver, BC, Canada. Washington, DC: RESNA Press.
- Cavalier, A. R. (1998). Distance education for postsecondary students with diverse needs: The state of the art and science. In Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Minneapolis, MN. Washington, DC: RESNA Press.
- Cavalier, A. R. (1999). Barriers to effective preservice and inservice distance education in assistive technology. In Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Long Beach, CA. Washington, DC: RESNA Press.
- Cavalier, A. R. (2000). Faculty support: Removing the barriers to effective distance education in assistive technology. In Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Orlando, FL. Washington, DC: RESNA Press.
- Brown, C., Allaire, J., & Cavalier, A. R. (2000). Outcome measure considerations and preliminary results from the design and testing of the Chin Dry technology. In Proceedings of the RESNA international conference on rehabilitation and assistive technologies, Orlando, FL. Washington, DC: RESNA Press.

Service Publications (non-refereed)

- Cavalier, A. R. (1982). Bioengineering projects in mental retardation. Behavioral Engineering, 8(1), 46-48.
- Cavalier, A. R. (1983). Bioengineering for mentally retarded persons: Increasing independence through new technologies. In G. Fitzer (Ed.), The forum. Arlington, TX: NCEARC.
- Brown, C. C., Cavalier, A. R., & Tipton, L. (1986). Persons with profound mental retardation speak out and take control. Proceedings of the voice input/output systems applications conference. New York: American Voice Input / Output Society and Lockheed Missiles and Space Company.
- Cavalier, A. R., Mineo, B. A., & Brown, C. C. (1986). Technological steps towards increased independence for persons with developmental disabilities. In J. L. Levy (Ed.), Model programs and new technologies for people with developmental disabilities. New York: The Young Adult Institute.
- Brown, C. C., Mineo, B. A., & Cavalier, A. R. (1987). The overlooked consumer: Technology for persons with severe handicaps. Synergy '87: Proceedings of the ASHF computer conference. Bethesda, MD: American Speech and Hearing Foundation.
- Hoover, B., Schoech, D., Kondraske, G., Cavalier, A. R., & Brown, C. (1988). Electronic networking: A component of integrating technology into service delivery. In H. J. Murphy (Ed.), Proceedings of the third annual conference on computer technology in special education/rehabilitation. Northridge, CA: California State University at Northridge.
- Schoech, D., Cavalier, A. R., Hoover, B., Kondraske, G., & Brown, C. (1989). Integrating technology into service delivery for persons with developmental disabilities. Computers in Human Services, 4(3/4), 299-313.
- Cavalier, A., Okolo, C., & Ferretti, R. (1990). Out of the mouths of machines... The CEC Technology-and-MediaNewsletter, 5(3), 8-9.
- Ferretti, R., Cavalier, A., & Okolo, C. (1990). Anchoring instruction to real-world contexts. The CEC Technology-and-Media Newsletter, 5(5), 8-9.
- Cavalier, A., & Schoech, D. (1991). The DD Connection Trainer: A tutorial on telecommunications using FIDO/OPUS electronic networks. Arlington, TX: The University of Texas at Arlington.
- Okolo, C., Ferretti, R., & Cavalier, A. (1991). Let's connect: Electronic networks and instructional activities for students with disabilities. The CEC Technology-and-Media Newsletter, 6(3), 10-11.

- Cavalier, A., & Brown, C. (1991). Computer networks and databases in special education and rehabilitation: An annotated directory. (3rd Ed.) Arlington, TX: ARC/US.
- Brown, C., Cavalier, A., Schoech, D., & Hoover, B. (1991). Critical issues to consider when integrating technology into a service provision system. American Occupational Therapy Association Newsletter, 14(3), 3-4.
- Okolo, C., Cavalier, A., & Ferretti, R. (1991). Who's in charge here? Learner control in technology-assisted instruction. The CEC Technology-and-Media Newsletter, 6(5), 10-12.
- Cavalier, A. R. (1991). Multimedia research in special education: Topics, environments, and adaptations. In L. Lahm & B. Anderson (Eds.), Multimedia technology in special education. Reston, VA: The Council for Exceptional Children.
- Brown, C., Wyatt, C., Sauer, M., & Cavalier, A. (1992). Sound-to-speech translation utilizing graphic symbols for persons with severe disabilities. In H. J. Murphy (Ed.), Proceedings of the CSUN international conference on technology and persons with disabilities. Northridge, CA: California State University at Northridge.
- Brown, C., Wyatt, C., Kostraba, J., & Cavalier, A. (1992). The development of new eyegaze and headpointing technology for people with mental retardation. In H. J. Murphy (Ed.), Proceedings of the CSUN international conference on technology and persons with disabilities. Northridge, CA: California State University at Northridge.
- DARC State Education Committee (1992). Parents' guide to special education in Delaware. Wilmington, DE: Association for the Rights of Citizens with Mental Retardation in Delaware.
- Ferretti, R., Okolo, C., & Cavalier, A. (1992). Interactive technology in social studies education. The CEC Technology-and-Media Newsletter, 7(3), 8-9.

Technical Reports

- McCarver, R., Cavalier, A. R., & Ellis, D. (1981). Project STAR: The investigation of an experimental automated environment for severely and profoundly mentally retarded persons. Tuscaloosa, AL: Partlow State School and Hospital.
- Ellis, D., McCarver, R., & Cavalier, A. R. (1982). PUSH IV: The effect of a change in physical environment on stereotypy. Tuscaloosa, AL: Partlow State School and Hospital.
- Cavalier, A. R. (1985). A bioengineering research project for intellectually-impaired children and adults. Prepared for the Martin Marietta Aerospace Company. Arlington, TX: The Association for Retarded Citizens National Headquarters.

- Mineo, B. A., & Cavalier, A. R. (1985). Design substantiation, field test plan, and preliminary marketing plan for cognitive software. Prepared for the Office of Special Education Programs, U.S. Department of Education, Contract No. 300-84-0156. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Cavalier, A. R. (1986). An assistive dining device and a computerized physical conditioning device for persons with multiple handicaps. Prepared for The Meadows Foundation. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Mineo, B. A., & Cavalier, A. R. (1987). Technology to enhance special education: Remediation of problems in logical thinking and memory. Prepared for the Office of Special Education Programs, U.S. Department of Education, Contract No. 300-84-0156. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Cavalier, A. R. (1987). The development of a sound-to-speech translation system to facilitate communication in children and adults with severe multiple handicaps. Prepared for The Xerox Foundation. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Mineo, B. A., & Cavalier, A. R. (1988). An ultrasonic bladder sensor for urinary incontinence. Prepared for the National Institute of Disability and Rehabilitation Research, U.S. Department of Education, Grant No. G008435026. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Brown, C. & Cavalier, A. R. (1988). Communication and control using voice recognition for persons with mental retardation. Prepared for Scott Instruments, Inc. Arlington, TX: The Association for Retarded Citizens National Headquarters.
- Blackstone, S., Brown, C., Cavalier, A. R., Mineo, B. A., VanBiervliet, A., & Wilson, M. (1989). Technology with low incidence populations: Access to education and learning. Liz Lahm (Ed.). Prepared for the Center on Special Education Technology. Reston, VA: The Council for Exceptional Children.
- Schoech, D., Hoover, B., Brown, C., Kondraske, G., & Cavalier, A.R. (1990). Integrating technology into service delivery. Prepared for The Texas Rehabilitation Commission. Arlington, TX: The University of Texas at Arlington.
- Cavalier, A. R. (1990). Information needs in the field of special education technology. Prepared for the federal Center for Special Education Technology. Reston, VA: The Council for Exceptional Children.
- Cavalier, A. R. (1994). Technology, power, and artificial distinctions. Prepared for the Chesapeake Institute as a deliverable to the Office of Special Education Programs, U.S. Department of Education.

Okolo, C. M., Cavalier, A. R., Ferretti, R. P., & MacArthur, C. A. (1994). Projects funded by the Technology, Media, and Materials Program, 1986-1994: What have we learned? Prepared for the Chesapeake Institute as a deliverable to the Office of Special Education Programs of the U.S. Department of Education.

MacArthur, C., & Cavalier, A. (1999). Evaluation of the feasibility of dictation with speech recognition technology to support the assessment of all students. Prepared for the Educational Research and Development Center of the University of Delaware.

MacArthur, C. A., & Cavalier, A. R. (2000). Dictation and speech recognition technology as accommodations in large-scale assessments for students with learning disabilities. Prepared for the Early Childhood and Exceptional Children Branch of the Delaware Department of Education.

Branson, J., Mouza, C., & Cavalier, A. R. (2006). Evaluation of a 1:1 computer laptop initiative in two vocational-technical high schools. Prepared for the Chester County Intermediate Unit of the Pennsylvania Department of Education.

Video Productions

Brown, C., & Cavalier, A. R. (1986). A New Horizon, a videotape of the application of computer voice recognition technology to increase the autonomy of persons with severe cognitive and physical impairments; VHS format, 25 minutes; published by the Association for Retarded Citizens National Headquarters.

Brown, C., Wyatt, C., Cavalier, A. R., & Mineo, B. A. (1990). Eye on the Horizon, a videotape of the application of newly developed, non-contact, eyegaze technology that enables children with severe cognitive and physical impairments to communicate and control their environment; VHS format, 24 minutes; published by the Association for Retarded Citizens National Headquarters.

AWARDS

1989 Certificate of Recognition for the inventive contribution disclosed in the patent titled Rapidly Quantifying the Relative Distention of a Human Bladder from the National Aeronautics and Space Administration.

1992 National Award for computer design and development titled "Sound-to-Speech Translation Utilizing a Graphic Display" from The National Science Foundation and The Johns Hopkins University.

1993 Certificate of Recognition for the inventive contribution disclosed in the patent titled Rapidly Quantifying the Relative Distention of a Human Bladder from the National Aeronautics and Space Administration.

1993 The Distinguished Faculty Award in the College of Education at the University of Delaware.

FEDERAL LEGISLATIVE INITIATIVES

Cavalier, A. R. Assistive technology for children and adults with mental retardation and other cognitive impairments. Testimony regarding national needs in the area of assistive technology devices and services, presented and submitted to the Senate Subcommittee on the Handicapped; Committee on Labor and Human Resources; U.S. Senate; May 19, 1988. (U.S. Senate Congressional Report on The Technology-Related Assistance For Individuals With Disabilities Act of 1988.)

Cavalier, A. R. Technology assistance: Devices, techniques, and services for people with cognitive impairments. Testimony regarding the development and application of assistive technology, presented and submitted to the Subcommittee on Select Education; Committee on Education and Labor; U.S. House of Representatives; May 10, 1988. (U.S. House of Representatives Congressional Report on The Technology-Related Assistance For Individuals With Disabilities Act of 1988.)

NATIONAL AND STATE BOARDS AND COMMITTEES

1979-1980 Consulting Editor on mental retardation for the journal The Law and Psychology Review.

1981-1982 Chair, Committee on Standardization of Qualified Mental Retardation Professionals, Department of Mental Health, State of Alabama. Responsible for developing a statewide QMRP training and certification system to comply with federal Title XIX standards and federal court order standards.

1985 Member, the Advisory Committee of the U.S. Office of Special Education Programs on increasing the use of augmentative communication aids in the public schools.

1985-1987 Member, the White House Task Force on Increasing the Accessibility of Computers for Disabled Persons.

1983-1988 Member, the Board of Directors of The Center for Computer Assistance to the Disabled, Dallas, Texas.

1987-1988 Member, The ARC/US advisory council to the staffs of Senator Thomas Harkin and Congressman Steven Bartlett on the writing of Public Law 100-407, The Technology-Related Assistance For Individuals With Disabilities Act.

1988-1990 Member, the National Advisory Committee of the federal Rehabilitation Engineering Center on Augmentative Communication of the A. I. du Pont Institute and the University of Delaware, Wilmington, Delaware.

- 1989-1994 Member, the Delaware State Advisory Committee on persons with mental retardation or autism who have severe behavior disorders, Division of Mental Retardation, Delaware Health and Social Services.
- 1990-1993 Member, the Board of Directors of The College School, an elementary school for children with special learning needs, in the College of Education at the University of Delaware.
- 1986-1995 Associate Editor of the journal Computers In Human Services.
- 1990-1995 Member, the State Education Committee of the Delaware Association for the Rights of Citizens With Mental Retardation, a statewide advocacy organization for children and adults with mental retardation.
- 1990-1991 Member, the National Advisory Committee of the federal Rehabilitation Engineering Center on Communication, Control, and Computer Access for Handicapped Individuals at the Trace Center of the University of Wisconsin-Madison.
- 1988-1991 Member, the National Advisory Committee of the federal Rehabilitation Engineering Center on Technology Service Delivery at the Institute for Human Resource Development, Glastonbury, Connecticut.
- 1989-1991 Chair, the National Advisory Committee of the federal Center for Special Education Technology, Reston, Virginia. (Member, 1987-88)
- 1990-1991 Co-Founder and Chair, the division on Special Education of The Association for the Advancement of Rehabilitation and Assistive Technologies (RESNA), formerly The Rehabilitation Engineering Society of North America.
- 1993-1994 Member, The Assistive Technology Task Force for the State Department of Public Instruction in Delaware.
- 1993-1994 Vice President, the Council for Exceptional Children, Delaware state chapter.
- 1993-2002 Member, the Editorial Board of the journal Assistive Technology.
- 1995-2008 Member, the Editorial Board of the journal Technology and Disability.
- 1998-2003 Member, the Editorial Board of the journal Information Technology in Childhood Education.
- 2000-2004 Member, the Editorial Board of the Journal of Special Education Technology.
- 2000-2005 Member, the Core Steering Team, Delaware Positive Behavior Support Project, Center for Disabilities Studies, University of Delaware.

1998-1999 Member, DDOE Advisory Committee on Needs-Based Funding of Special Education.

1999-2014 Member, DDOE Advisory Committee on the Restraint and Seclusion of Students in Delaware Schools.

1992-present Member, the Governor's Advisory Council on Exceptional Citizens for the State of Delaware.

2011-2015 Member, the state Advisory Committee on Adapted Physical Education.

2013-2016 Member, the Human Rights and Restrictive Practices Review Committee for the statewide Delaware Autism Program.

CONTRACTS AND GRANTS

Below is a list of grant proposals submitted to external funding agencies in the past five years. A list of all other contract and grant proposals is available upon request.

Parker, E. B., Obrusnikova, I., & Cavalier, A. R. (2010). Physical activity for digital entertainment for individuals with intellectual disabilities. *The National Institutes of Health, SBIR Phase I* (\$54,918). Not funded.

Parker, E. B., Obrusnikova, I., & Cavalier, A. R. (2010). Physical activity for continuous entertainment and health for individuals with autism. *U.S. Department of Education, SBIR Phase I* (\$22,780). Not funded.

Obrusnikova, I., Cavalier, A. R., & Bibik, J. (2010). The effects of therapy dog-assisted exercise on children with autism spectrum disorders. *The National Institutes of Health, R03* (\$100,000). Not funded.

Obrusnikova, I., Cavalier, A. R., & Getchell, N. (2011). Using video modeling and activity schedules to facilitate physical activity in children with autism spectrum disorders. *Autism Speaks* (\$24,675). Not funded.

Obrusnikova, I., & Cavalier, A. R. (2014). *The Design and Evaluation of a Mobile Learning Lab to Facilitate Motor Skill Acquisition by Diverse Learners*. A research grant proposal submitted to the UD Center for Teaching and Assessment of Learning and Academic Technology Services Transformation Grant Competition. This grant proposal was approved and awarded \$14,914.

Obrusnikova, I., Cavalier, A., Jadach, J., & Hancharick, T. (2015). *Inclusion of Adults with Intellectual Disabilities in Delaware Fitness Programs*. A research grant proposal submitted to the Delaware CTR-ACCEL Community Engaged ACE Research Program. This grant proposal was approved and awarded \$20,000.

CONFERENCE PRESENTATIONS

Below is a list of conference presentations in the past five years. A list of all other presentations and instructional courses at professional conferences and symposia is available upon request.

Obrusnikova, I., Bibik, J. M., Manley, K. J., Kyle, D. A., & Cavalier, A. (March, 2011). *Canine assisted physical activity for children with autism spectrum disorders*. A podium presentation at the AAHPERD National Convention, San Diego, California.

Obrusnikova, I., Bibik, J., & Cavalier, A. (July, 2011). *Effects of therapy dog-assisted exercise on children with autism spectrum disorders*. A podium presentation at the 2011 National Consortium for Physical Education and Recreation of Individuals with Disabilities National Convention, Reston, Virginia.

Obrusnikova, I., Cavalier, A., & Bibik, J. (March, 2012). *Effects of therapy dogs on physical activity of children with autism*. A poster presentation at the AAHPERD National Convention, Boston, Massachusetts.

Obrusnikova, I., Bibik, J., & Cavalier, A. (October, 2012). *Effects of therapy dog-assisted exercise on on-task behavior of children with autism spectrum disorders*. A podium presentation at the 11th North American Federation of Adapted Physical Activity Symposium. Birmingham, Alabama.

Obrusnikova, I., Cavalier, A., Jadach, J., & Hancharick, T. (November, 2015). *Inclusion of Adults with Intellectual Disabilities in Delaware Fitness Programs*. Delaware CTR-ACCEL Community Engaged ACE Research Kick-Off Conference, sponsored by Nemours, Wilmington, DE.

Obrusnikova, I., & Cavalier, A. (2016). *The effect of videoprompting and the system of least-to-most prompts on the acquisition of fitness tasks in adults with intellectual disabilities*. The North American Federation of Adapted Physical Activity Symposium.

Obrusnikova, I., Cavalier, A., Jadach, J., & Hancharick, T. (2016). *Promoting fitness task acquisition of individuals with moderate intellectual disabilities using the system of least-to-most prompts and video*. CTR-ACCEL Community Engaged ACE Research Kick-Off Conference, sponsored by Nemours, Wilmington, DE.

Obrusnikova, I., & Cavalier, A. (2017). *Effectiveness of video modeling in teaching fundamental motor skills to preschoolers*. SHAPE America National Convention and Expo. Proposal has been accepted for 2017.