CURRICULUM VITAE

Charles R. Crowell

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B09A Flanner Hall
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Educational History

Institution	Dates Attended	Degree
University of Notre Dame	1966-1969	BA
University of Iowa	1969-1973	MA/PhD
McMaster University	1973-1974	Post-doctoral

Field of Specialization: General Experimental - Learning and Motivation

Academic Employment History

Director, Department of Psychology, Cognitive, Brain & Behavior Area, May, 2017 - present.
Full Professor of Psychology, University of Notre Dame, May, 2017 - present.
Director, Computing & Digital Technologies Program, University of Notre Dame, 2015 - present.
Associate Professor of Psychology, University of Notre Dame, Sept., 1981 - April, 2017.
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Director, Computer Applications Program, University of Notre Dame, 2001 – 2016.
Director, Cognitive Psychology Program, University of Notre Dame, 2005 – 2011.
Associate Professor and Director of Graduate Studies, Notre Dame, 1982 – 1984.
Assistant Professor of Psychology, University of Notre Dame, Sept., 1974 – 1981.
Assistant Prof and Acting Director of Graduate Studies, Notre Dame, 1977 – 1978.
Professional Associate in Psychology, McMaster University, Sept., 1973 – Aug., 1974.
Assistant Prof in School of Adult Ed, McMaster University, Sept., 1973 – June, 1974.
Instructor in Psychology (part-time), Portland State University, Jan., 1972 – May, 1973.
Research coordinator, Oregon Health Sciences Center, Sept. 1972 – Aug., 1973.
Graduate research assistant, University of Iowa, Sept. 1969 – Aug., 1972
Undergraduate research assistant, University of Notre Dame, 1968 – 1969.

Present or Past Professional Affiliations

The Psychonomic Society
Society for Applied Learning Technology
National Society for Performance and Instruction
Association for Applied Behavior Analysis
OBM Network
APS
IEEE

Honors

Invited Hesburgh Lecture Series Speaker, University of Notre Dame, 2006 – present
Best Full paper Award Winner, 2011 Healthcom Conference
Invited participant for
Pontifical Council for Culture Workshop on Endogenous Processes and Causation in Brain and Behavioral Sciences, Vatican City, April, 2009
Invited Speaker at ND Alumni College, June, 2008
Presidential Faculty Award, University of Notre Dame, 2005
Magna cum laude, University of Notre Dame, 1969

Professional Activities

Advisory Board, *Arts & Letters Center for Creative Computing*, 2003 – present.
Editorial Board for *Journal of Organizational Behavior Management*, *1984* – present.
Research Grants Coordinator, OBM Network, 2006 – 2017.
Faculty advisor, ND chapter of Students in Free Enterprise (SIFE), 2008 – 2013.
Member of the ConvergeUS Council of Innovation Advisors, 2011 – 2012.
Advisory Board, *Indiana Careers at Notre Dame*, 2004 – 2010.
Advisory Board, *Notre Dame College of Business MIS Program*, 2002 – 2009.
Panel reviewer for National Research Council, 1984.
Consulting editor, Learning Systems in Psychology, Allyn & Bacon, Inc., 1983 – 1988.

Editorial Board for electronic *Journal of Behavior Analysis and Therapy* (jBAT), 1982 – 1984.
Faculty representative to Midwest Institute of Studies on Alcohol, 1975 – 1978.
Consulting reviewer for

Journal of Comparative and Physiological Psychology
Animal Learning & Behavior
Learning and Motivation
Journal of Applied Behavior Analysis
American Journal of Mental Retardation
International Journal for Human Computer Studies
Journal of Social Psychology
Psychology and Marketing
Journal of Organizational Behavior Management
Journal of Social Robotics
Interaction Studies
Human Robot Interaction (HRI)
Intelligent Robots and Systems (IROS)
National Science Foundation
Prentice-Hall Publishers
Allyn & Bacon Publishers

Consultant to numerous organizations and corporations including:

Abbott Laboratories
Bristol, Meyers, Squibb, Inc.
AT&T
Bell Labs
Financial Training Resources
First Interstate Bancorporation
First Source Bank
Golden Dome Productions
Green Bay Packers
General Motors
Hillshire Farms
Huntington Bank
IBM
Krueger, Inc.
National City Bank Corporation
Merck & Co., Inc.
Miles Laboratories
Raddison Hotels

Research Interests

Basic Processes in Learning, Cognition, & Motivation
Behavioral Teaching Methods and PSI
Educational and Learning Technology
Organizational Behavior Management and Performance Technology
Human-Technology (Computer/Robot) Interaction
Ethical Implications of Technology

Courses Taught

Conditioning and Learning, Motivation, Physiological Psychology, General Psychology, Instrumentation and Laboratory Techniques, Research Methodology, Computer Applications in Research and Education, Behavior Management, Performance Technology, Practicum in Robots

Grant Activity

External Applications with Crowell as PI or Co-PI

YEAR	SPONSOR	AMOUNT	OTHER CO-PIs	STATUS	SOURCE
2016	Air Force Office of Scientific Reseach	$390,000	Villano	Funded	External
2016	Air Force Office of Scientific Reseach	$125,000	Villano	Funded	External
2014	Wells Fargo Trust Foundations	$10,000	Diehl, Kuboski, Villano, Wier	Funded	External
2013	**Autism Speaks**	**$135,000**	**Diehl, Villano, Wier**	**Declined**	**External**
2013	**National Institute of Justice**	**$866,072**	**Crowell, Kajzer, Villano, D'Mello**	**Declined**	**External**
2012	**Autism Speaks**	**$119,268**	**Diehl, Villano, Wier**	**Declined**	**External**
2012	**NSF--NRI**	**$571,449**	**Schiemedeler, Stanisic, Riek**	**Declined**	**External**
2011	NSF – Smart Health & Well Being	$500,000	Schmiedeler, Striegel	Funded	External
2011	**NSF—National Robots Initiative**	**$1,845,661**	**Diehl, Riek, Villano**	**Declined**	**External**
2011	**CDMRP – Autism Research Program**	**$147,954**	**Diehl, Bowyer, Villano**	**Declined**	**External**
2011	Arby's Foundation	$23,500	Dunlap, Diehl, Villano, Wier	Funded	External
2011	**NSF--HCC**	**$499,998**	**Schiemedeler, Stanisic**	**Declined**	**External**
2009	NSF – Trustworthy Computing	$477,783	Striegel, D'Arcy	Funded	External
2009	**NSF - CPATH**	**$297,844**	**Striegel, Chaudary, Villano**	**Declined**	**External**
2009	NSF – CCLI	$199,940	Striegel, Chaudary	Funded	External
2008	**NSF - Cybertrust**	**$496,429**	**Striegel, D'Arcy**	**Declined**	**External**
2008	**NWIGC**	**$56,000**	**Villano, Mangini**	**Declined**	**External**

2008	Lilley Endowment	$500,000	Edinborough, Svete, Anderson	Funded	External
2008	**NSF – Trustworthy Computing**	**$496,429**	**Striegel, D'Arcy**	**Declined**	**External**
2008	**NSF - IT Creativity**	**$169,498**	**Striegel**	**Declined**	**External**
2007	**NSF- PAC**	**$338,170**	**Villano**	**Declined**	**External**
2004	Lilley Endowment	$1,000,000	Svete, Anderson	Funded	External

Internal/Matching Applications with Crowell as PI or Co-PI

YEAR	SPONSOR	AMOUNT	OTHER CO-PIs	STATUS	SOURCE
2016	Henkels Large Grant	$20,000	Villano, Howard	Funded	Internal
2015	**Global Collaborative Initiative**	**$20,000**	**Villano, Christen, Howard**	**Declined**	**Internal**
2015	**Henkels Large Grant**	**$30,000**	**Villano, Howard**	**Declined**	**Internal**
2013	Ganey Grant	$7,000	Kajzer, Villano	Funded	Internal
2011	ISLA International Travel	$2,000	None	Funded	Internal
2011	ISLA – Small Research Grant	$2,500	None	Funded	Internal
2010	ND-CTSI PDT Pilot Grant	$12,988	Striegel, Schmiedeler, Villano	Funded	Internal
2010	Ganey Grant	$7,000	Diehl, Villano	Funded	Internal
2010	ND – CTSI PDT Pilot Grant	$20,000	Diehl, Villano	Funded	Internal
2009	**ISLA – Pilot Funds**	**$15,000**	**Davis, Villano**	**Declined**	**Internal**
2008	ND ISLA	$7,117	Villano	Funded	Internal
2008	ND Matching Grant	$500,000	Edinborough, Svete, Anderson	Funded	Internal
2007	**ND SAPC**	**$5,500,000**	**Misc**	**Declined**	**Internal**
2007	**ND SAPC**	**$7,500,000**	**Boyd**	**Declined**	**Internal**
2006	ND ERR	$95,521	Villano, Chow	Funded	Internal
2005	ISLA Henkel's	$1,500	None	Funded	Internal

2004	ND Matching Grant	$250,000	Svete, Anderson	Funded	Internal

Grant Application Summary

Total Funds Requested since 2004 =	**$23,236,621**
Total Funds Awarded since 2004 =	**$4,131,849**
Total External Funds Requested since 2004 =	**$9,265,995**
Total External Funds Awarded since 2004 =	**$3,226,223**
Total Internal Funds Requested since 2004 =	**$13,970,626**
Total Internal Funds Awarded since 2004 =	**$905,626**

Works Published, In Press, Submitted, and In Progress

*In this section, an emboldened first author name together with the "*****" denotes one of my undergraduate, co-advised, or advised graduate students granted first authorship. I have been the primary advisor to some students on certain projects, even though they were in other departments. In these cases when a student is first author, depending on other circumstances, I do not always place myself in the second authorship position. NOTE: Impact factors and/or rejection rates are presented below only for publuctions after 2010.*

Books, Monographs, Technical Reports, and White Papers

Crowell, C. R. (Ed., 2019). *Technology Enhanced Warfare: Perspectives from Ethics and Social Science*. Book contract under consideration with Routledge *War, Conflict & Ethics* Series.

Crowell, C. R. (2004). *Guided Self Development: A New Leadership Paradigm for Achieving and Sustaining Peak Performance*. E-book available at https://ccrowell.nd.edu/.

Crowell, C. R. (1998). *On the Road to Organizational Success.* South Bend, IN: White Paper available at https://ccrowell.nd.edu/.

Crowell, C. R. (1998). *Paradigms for Organizational Effectiveness: Achieving Lasting Change.* South Bend, IN: White Paper available at https://ccrowell.nd.edu/.

Crowell, C. R. (1996). *On the nature and evaluation of "performance diagnosis."* South Bend, IN: White Paper

Crowell, C. R. (1996). *Performance care: A Diagnostically Driven Approach to Employee Development.* South Bend, IN: White Paper available at https://ccrowell.nd.edu/.

Crowell, C. R., Worland, P. W. & Jones, J. W. (1996). *Are you in search of cost-effective training?* South Bend, IN: White Paper available at https://ccrowell.nd.edu/.

Crowell, C. R. (1993). Consultative Review 1992: Factors that characterize high and average sales performers in the Caribbean region. *Unpublished technical report 9301*.

Crowell, C. R. (1992). Consultative Review 1992: Factors that characterize high and average sales performers in MSD New Zealand. *Unpublished technical report 9201*.

Crowell, C. R. (1992). Consultative Review 1992: Factors that characterize high and average sales performers in MSD Belgium. *Unpublished technical report 9202.*

Crowell, C. R. (1992). Consultative Review 1992: Factors that characterize high and average sales performers in MSD Mexico. *Unpublished technical report 9203.*

Crowell, C. R. (1991). An analysis of behaviors that distinguish high and average sales performers in MSD Australia. *Unpublished technical report 9101*.

Crowell, C. R. (1991). Progress Analysis 1991: Factors that characterize and distinguish high and average sales performers in MSD France. *Unpublished technical report 9102.*

Crowell, C. R. (1991). Consultative Review 1991: Factors that characterize and/or distinguish high and average sales performers in MSD Holland B. V.. *Unpublished technical report 9103.*

Crowell, C. R. (1991). Consultative Review 1991: Factors that characterize high and average sales performers in MSD Portugal. *Unpublished technical report 9104.*

Crowell, C. R. & Wikoff, M. B. (1990). An analysis of behaviors that distinguish high and low pharmaceutical sales performers in Saudi Arabia. *Unpublished technical report 9001*.

Crowell, C. R. & Wikoff, M. B. (1990). An analysis of behaviors that distinguish high and low pharmaceutical sales performers in Puerto Rico. *Unpublished technical report 9002.*

Crowell, C. R. (1990). An analysis of behaviors that distinguish high and average pharmaceutical sales performers in France. *Unpublished technical report*

9003.

Crowell, C. R. (1990). An analysis of behaviors that distinguish high and average pharmaceutical sales performers in Portugal. *Unpublished technical report 9004.*

Crowell, C. R. (1990). An analysis of behaviors that distinguish high and average pharmaceutical sales performers in Spain. *Unpublished technical report 9005.*

Crowell, C. R. & Wikoff, M. B. (1989). A second analysis of behaviors that distinguish high and low pharmaceutical sales performers in the UK. *Unpublished technical report 8901.*

Crowell, C. R. & Wikoff, M. B. (1989). A second analysis of behaviors that distinguish high and low pharmaceutical sales performers in Italy. *Unpublished technical report 8902.*

Crowell, C. R. & Wikoff, M. B. (1989). An analysis of behaviors that distinguish high and low pharmaceutical sales performers in Mexico. *Unpublished technical report 8903.*

Crowell, C. R. & Wikoff, M. B. (1987) An analysis of behaviors that distinguish high and low pharmaceutical sales performers in the UK and Spain. *Unpublished technical report 8701.*

Crowell, C. R. & Wikoff, M. B. (1987). An analysis of behaviors that distinguish high and low pharmaceutical sales performers in Italy. *Unpublished technical report 8702.*

Crowell, C. R. with Anderson, D. C. (1983; Brandon Hall special issue editor). *OBM in multiple business environments*. New York: Haworth Press. (Special issue of JOBM)

<u>Works Submitted/Under Review</u>

Crowell, C. R., Kajzer, M., Villano, M., Striegel, A., O'Brien, K., and Schmeideler, J. P. (revision under review). Balance performance with visual feedback in older subjects compared to young healthies and clinical populations. *Smart Health*. IF = not available.

McArthur, K.*, Hantula, D. A., & **Crowell, C. R.** (revision under review). Customer as Performance Manager: Improving the In-Home Repair Service Provided by a Major Home Appliance Manufacturer Using a Customer-based Metric. *Journal of Organizational Behavior Management.* IF = 1.23

Kajzer, M. D.*, **Crowell, C. R.**, Villano, M., Segerson, J., & Zenk, J. (revision under review). Using Chat Utterances to Predict Participant Classification as Pseudo-Child or Sexual Offender. *Cyberpsychology, Behavior, and Social Networking*. IF = 1.842.

Crowell, C. R., Deska, J. C., & Villano, M. (revision under review) Factors influencing the anthropomorphism of robots. *ACM Transactions on Human-Robot Interaction.* IF = not available.

Articles in Peer-Reviewed Outlets

O'Brien, K., **Crowell, C. R.**, & Schmeideler, J. P. (2017). Error Augmentation Feedback for Lateral Weight Shifting. *Gait & Posture, 54,* 178-182. IF = 2.75

Zenk, J.*, **Crowell, C. R.,** Villano, M., Kaboski, J., Tang, K., & Diehl, J.J. (2017). Unconventional Students in Robotics and HRI Education: A Review of Two Initiatives. *Journal of Human Robot Interaction, 6(2),* 92-110, DOI 10.5898/JHRI.6.2.Zenk. IF = not available.

Kennedy, M. W.*, **Crowell, C. R.**, Villano, M., & Schmiedeler, J. P. (2016). Effects of Filtering the Center of Pressure Feedback Provided in Visually Guided Mediolateral Weight Shifting. *Plos One, 11(3).* http://dx.doi.org/10.1371/journal.pone.0151393. IF = 3.53.

Hantula, D. A.*, & **Crowell, C. R.** (2016). Matching and Behavioral Contrast in a Two-Option Repeated Investment Simulation. *Managerial and Decision Economics, 37(4-5),* 294-305, doi: 10.1002/mde.2717 IF = 1.904.

Oomiyale, O., **Crowell, C. R.**, & Madhavan, S. (2015). Effects of Wii-based balance training on corticomotor excitability post stroke. *Journal of Motor Behavior, 47(3)*,190-200. doi: 10.1080/00222895.2014.971699 IF = 1.418.

Cunningham, T.*, **Crowell, C.**, Alger, S., Villano, M., Mattingly, S., and Payne, J. (2014). Sleep's role in the depotentiation of psychophysiological reactivity and its relationship to subsequent memory. *Neurobiology of Learning and Memory, 114,* 155-164. IF = 4.035

Christen, M., Villano, M., Narvaez, D., Serrano, J., & **Crowell C. R.** (2014). Measuring the moral impact of operating "drones" on pilots in combat, disaster management and surveillance. *Proceedings of the Twenty Second European Conference on Information Systems*, acceptance rate=.23

Kaboski, J.R., Diehl, J.J., Beriont, J., **Crowell, C.R.**, Villano, M., Wier, K., & Tang, K. (2014). Brief Report: A pilot summer robotics camp to reduce

social anxiety and improve social/vocational skills for adolescents with ASD and their peers. *Journal of Autism and Developmental Disorders*. doi: 10.1007/s10803-014-2153-3. IF=2.96.

Kajzer, M.*, D'Arcy, J., **Crowell, C. R.**, Striegel, A., Van Bruggen, D. (2014). An Exploratory Investigation of Message-Person Congruence in Security Awareness Campaigns. *Computers & Security,43*, 64-76. IF = 1.158

Newkirk, J. T. , Tomsic, M., **Crowell, C. R**., Villano, M. A., & Michael M. Stanisic, M. M. (2013). Measurement and Quantification of Gross Human Shoulder Motion. *Applied Bionics and Biomechanics, 10*, 159–173. *DOI 10.3233/ABB-140083*. IF=0.483

Van Bruggen, D., Liu, S., Kajzer, M., Striegel, A., **Crowell, C. R.**, & D'Arcy, J. (2013). Modifying smartphone user locking behavior. In Proceedings of the Ninth Symposium on Usable Privacy and Security (full paper). ACM. acceptance rate =29%.

Kennedy, M. W.*, **Crowell, C. R.**, Striegel, A. D., Villano, M., & Schmiedeler, J. P. (2013). Relative efficacy of various strategies for visual feedback in standing balance activities. *Experimental Brain Research, 230(1)*, 117-125. IF=2.21

Hayes, C. J.*, **Crowell, C. R.**, & Riek, L. D. (2013). Automatic processing of irrelevant co-speech gestures with human but not robot actors. *Proceedings of the 6th ACM IEEE International Conference on Human-Robot Interaction*, Tokyo, Japan: ACM/IEEE. H5-index=32; acceptance rate=.20

Crowell, C. R. (2012). What does JOBM want to be when it grows up? *Journal of Organizational Behavior Management, 32(2)*, 127-130. IF=1.23

Biggs, A. T., Kreager, R. D., Gibson, B. S, Villano, M., & **Crowell, C. R.** (2012). Semantic and affective salience: The role of meaning and preference in attentional capture and disengagement. *Journal of Experimental Psychology: Human Perception and Performance, 38(2)*, 531-541. IF=3.06

Diehl, J. J., Schmitt, L. M., Villano, M., & **Crowell, C. R.** (2012). The clinical use of robots for individuals with Autism Spectrum Disorders: A critical review. *Research in Autism Spectrum Disorders, 6(1)*, 249-262. IF=2.96

Crowell, C. R., Hantula, D. A., & McArthur, K. (2011). From job analysis to performance management: A synergistic rapprochement to organizational effectiveness. Invited submission for a special issue of *Journal of Organizational Behavior Management, 31*, 316-332. IF=1.23

Kennedy, M. W.*, Schmiedeler, J. P., Striegel, A. D., **Crowell, C. R.**, Villano, M., & Kuitse, J. (2011). Enhanced Feedback in Balance Rehabilitation using the Nintendo Wii Balance Board. *Proceedings of the IEEE Healthcom 2011 - Technology Enabled Personalized Medicine, Columbia, Missouri: IEEE-Healthcom.* (Best Paper Award)

Villano, M., **Crowell, C. R.**, Wier, K. Tang, K., Thomas, B., Shea, N., Schmitt, L. M., & Diehl, J. J. (2011). DOMER: A Wizard of Oz Interface for Using Interactive Robots to Scaffold Social Skills for Children with Autism Spectrum Disorders. *Proceedings of the 4th ACM IEEE International Conference on Human-Robot Interaction, Lausanne, Switzerland: ACM/IEEE*. H5-index=32; acceptance rate=.22

Crowell, C., Shermerhorn, P., Scheutz, M. & Villano, M. (2009). Social presence effects of gendered voice and robot entities: perceptions and preconceptions, *Proceedings of the 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems*, St. Louis, MO: IEEE-RSJ.

Scheutz, M., & **Crowell, C.** (2008). Robot autonomy: some ensuing ethical questions. *Proceedings of the 2008 NA-CAP Conference*. Bloomington, IN: IACP.

Shermerhorn, P., Scheutz, M, and **Crowell, C. R.**. (2008). Robot social presence and gender: do females view robots differently than males? *Proceedings of the 3nd ACM IEEE International Conference on Human-Robot Interaction*. Amsterdam, Netherlands: ACM/IEEE. H5-index=32; acceptance rate=.18

Scheutz, M., & **Crowell, C.** (2007). The burden of embodied autonomy: Some reflections on the social and ethical implications of autonomous robots. *Proceedings of the 2007 IRCA Conference*. Rome, IT: IEEE-RAS.

Crowell, C. R. (2007). Of rats and humans: a 35-year odyssey in OBM from the laboratory to the real world. *Journal of Organizational Behavior Management, 27(2),* 37-64

Crowell, C. R. (2005). Beyond positive reinforcement: OBM as a humanizing approach to management practices. *Journal of Organizational Behavior Management, 24(1/2),* 195-202.

Crowell, C. R., & Anderson, D. C. (2005). On reinventing OBM: Comments on Geller's proposals for change. *Journal of Organizational Behavior Management, 24(1/2),* 27-53.

Boker, S., & **Crowell, C. R.** (2004). Proposal for the creation of a Web-based heterogeneous distributed archive for psychological data. *Behavior Research Methods Instrumentation & Computers, 36(4),* 670-677.

Anderson, D. C., & **Crowell, C. R.** (2003). The Sacred and the secular in OBM. *OBM Network News, 17,* 4-7.

Anderson, D. C., **Crowell, C. R.**, DePaul, M., & McEachin, J. (1997). Intensification of punishment effects through exposure to brief, fixed-duration shocks: The role of shock cues as a stimulus for fear. *Animal Learning & Behavior, 25,* 68-83.

Hantula, D. A.*, & **Crowell, C. R.** (1994). Behavioral contrast in a two-option analogue task of financial decision making. *Journal of Applied Behavior Analysis, 27,* 607-617

Anderson, D. C., **Crowell, C. R.**, Boyd, N., & Hantula, D. (1995). Fixed-duration shock treatment: Pre- and post-treatment stimulation, activity, and skin resistance as predictors of escape performance. *Psychobiology, 23,* 329-344.

Hantula, D. A.*, & **Crowell, C. R.** (1994). Intermittent reinforcement and escalation processes in sequential decision making: A replication and theoretical analysis. *Journal of Organizational Behavior Management, 14,* 7-36.

Williams, C. J.*, & **Crowell, C. R.** (1993). Providing institutional support for developing and using educational technologies: A case study. *Technological Horizons of Education Journal, 21,* 114-118.

Crowell, C. R., & Anderson, D. C. (1991). Behavior management in a book bindery: Can OBM work against the odds? *Proceedings of the Association of Management, 29,* 55-60.

Hantula, D. A.*, & **Crowell, C. R.** (1991). Experience or framing? Further inquiry into the dynamics of persistence and escalation of commitment. *Proceedings of the Academy of Management, 54,* 198-204.

Quintanar, L. R.*, & **Crowell, C. R.** (1991). The PC/PBX exploration guide system for PC-based sales demonstrations and training. *Proceedings of the AT&T Human Factors and Behavioral Sciences Symposium.* Hinsdale, NJ.

Hantula, D. A.*, Boyd, J., & **Crowell, C. R.** (1989). Ten years of behavioral instruction with computers: Trials, tribulations, and reflections. *Proceedings of the Academic Microcomputer Conference, 5,* 143-155.

Anderson, D. C., **Crowell, C. R**., Hantula, D., & Siroky, L. (1988). Task clarification and individual performance posting to increase cleaning in a student-run university bar. *Journal of Organizational Behavior Management, 2,* 73-90.

Crowell, C. R., Boyd, N., & Setzer, M. (1988). Software recording technology: Promise for reducing the hidden costs of computerization. *Proceedings of the Academic Microcomputer Conference, 4,* 120-129.

Crowell, C. R., Anderson, D. C., Abel, D., & Sergio, J. (1988). Task clarification, performance feedback, and social praise: Procedures for improving the customer service of bank tellers. *Journal of Applied Behavior Analysis, 21,* 65-71.

Anderson, D. C., **Crowell, C. R.**, Doman, M. & Howard, G. (1988). Performance posting, goal setting, and activity-contingent praise as applied to a university hockey team. *Journal of Applied Psychology, 73,* 87-95.

Crowell, C. R., Johnson, J. F., Selner, M. B., Miller, A. E., Sayer, N. & Raine, B. (1987). Developing a model curriculum with database capabilities for severely handicapped adults. *Proceedings of the CTG 5th International Conference, Computer Technology for Special Education and Rehabilitation,* 25-32.

Anderson, D. C., **Crowell, C. R.**, & Ramirez, R. (1987). Stepwise reductions in US density and intensity: Maintenance and extinction of conditioned suppression. *Animal Learning & Behavior, 15,* 312-320.

Crowell, C. R., Hantula, D. L., Johnson, J. M., & Miller, A. E. (1987). Authoring for interactive learning: Some features and considerations. *Proceedings of the Academic Microcomputer Conference, 4,* 110-119.

Widerquist, K. L.*, Birdsell, J, Johnson, J. F., **Crowell, C. R.**, & Miller, A. E. (1987). Designing a course to train secondary teachers to develop interactive videodisc courseware. *T.H.E. Journal, 6,* (February), 25-34.

Phillips, J.*, Villano, M., **Crowell, C. R**., Setzer, M., & Miller, A. E. (1986). Typing versus menu selection for data entry: In search of the crossover point for maximum efficiency. *Proceedings of the Academic Microcomputer Conference, 2,* 157-169.

Birdsell, J.*, Widerquist, K. L., **Crowell, C. R.**, Johnson, J. F., & Miller, A. E. (1986). Components of a level III interactive videodisc delivery system. *Proceedings of the Academic Microcomputer Conference, 2,* 149-156.

Crowell, C. R., Hantula, D. A., Johnson, J. F., & Miller, A. E. (1986). The psychology of interactive learning. *Proceedings of the Academic Microcomputer Conference, 2*, 137-148.

Steck, E. J.*, **Crowell, C. R.**, & Johnson, J. F. (1986). Comparing the instructional effectiveness of CAI and traditional methods in the freshmen chemistry lab. *Proceedings of the National Educational Computing Conference, 7*, 190-195.

Anderson, D. C., **Crowell, C. R.**, & Siroky, L. (1985). Activity, startle magnitude, and prolonged food and water deprivation: Two failures to duplicate. *Bulletin of the Psychonomic Society, 23*, 423-426.

Konarski, E. A., Jr.*, **Crowell, C. R.**, & Duggan, L. M. (1985). Use of the response deprivation hypothesis to increase the academic performance of EMR students. *Applied Research in Mental Retardation, 6*, 15-31.

Anderson, D. C., **Crowell, C. R.**, & Brown, J. S. (1985). Startle potentiation and heart rate as affected by fear and hunger. *Psychological Reports, 56*, 95-109.

Anderson, D. C., **Crowell, C. R.**, Wikoff, M., & Sergio, J. (1983). On getting people to do what they could and should be doing. *Proceedings: The 1983 SPC/IREAPS technical symposium, 10*, 680-719.

Crowell, C. R. and Anderson, D. C. (1983). The scientific and methodological basis of a systematic approach to human behavior management. *Journal of Organizational Behavior Management, 4*, 1-32.

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Kajzer, M.*, **Crowell, C.R.**, & Villano, M. Using chat utterances to predict type of Internet child sexual offender.

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First-Authored or Student First-Authored

Zenk, J.*, **Crowell, C. R.,** Villano, M., Kaboski, J., Tang, K., & Diehl, J.J. (2018, March). Unconventional Students in Robotics and HRI Education: A Review of Two Initiatives. Paper presented at the 13th ACM IEEE International Conference on Human-Robot Interaction, Chicago, IL.

Crowell, C. R. (2017, October). *Technology Enhanced Warfare: Perspectives from Ethics and Social Science*. Symposium I organized that was held at the Notre Dame Rome Gateway Facility, October, 2017. See conference details at https://ccrowell.nd.edu/home/tew/.

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Crowell, C. R. & Latiff, R**.** (2017, October). The Importance of Ethics for Understanding Technology Enhanced Warfare. Remarks delivered on behalf of Robert Latiff at the *Technology Enhanced Warfare: Perspectives from Ethics and Social Science* symposium held at the Notre Dame Rome Gateway Facility.

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Crowell, C. R. (2016, July). Designing Moral Technologies: A Look Back and Other Thoughts. Invited Rapporteur Address for Conference on Designing Moral Technologies, Monte Verita, Switzerland.

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<u>Other Collaborative Papers</u>

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