

## Curriculum Vitae

**Chad Martin Harms, Ph.D.**

### CONTACT INFORMATION

Department of Management  
315 Mendoza College of Business  
Notre Dame, Indiana 46556 USA  
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### AREAS OF SPECIALIZATION

Future Studies  
Social Impacts of Communication Technology  
Virtual and Augmented Reality Systems  
Computer Mediated Communication

### PROFESSIONAL EXPERIENCE

**Associate Professional Specialist**, June 2010 – present  
Future Studies - Department of Management  
Mendoza College of Business  
University of Notre Dame

**Assistant Professor**, August 2003 – May 2010  
Human Computer Interaction  
Greenlee School of Journalism and Communication  
Iowa State University

**Project Coordinator, Presence Initiative** August 2001- August 2003  
Media Interface Network Design (M.I.N.D.) Lab  
Michigan State University

**Research Assistant** August 1998-August 2001  
College of Communication  
Michigan State University

**Research Assistant** June 1997-December 1997  
Office of the Provost and Women's Resource Center  
Michigan State University

**Research Assistant** March 1997-1999  
Communication Research Institute  
East Lansing, Michigan

## EDUCATION

Ph.D., Michigan State University      Major: Communication  
August 2004      Advisors: Dr. Tim Levine/Dr. Frank Biocca  
Dissertation Title: The effects of media type and personal relationship on perceptions of social presence.

M.A., Michigan State University      Major: Communication  
July 2000      Advisor: Dr. Kelly Morrison  
Thesis Title: Uncertainty Reduction in 2-D Multiple User Dimensions

B.A., Iowa State University      Major: Speech Communication  
December 1995      Minor: Sociology

## PUBLICATIONS

(Items listed here are presented by category, to show the broad impact of scholarship.)

## BOOK CHAPTERS

**Harms, C.**, Niederhauser, D., Davis, N., Roblyer, M. D. & Gilbert, S. (2010). Communicating Roles and Responsibilities for Virtual Schooling. In S. Burrows (Ed.), *Teaching and Learning with Technology: Beyond Constructivism*. Routledge – Taylor & Francis Group. (Extended version of EJC 2006 paper)

**Harms, C.** (2008). Education and exploitation off the virtual trail to Oregon. In R. E. Ferdig, (Ed.), *The Handbook of Research on Effective Electronic Gaming in Education*. Hershey, PA: IGI Global.

## REFEREED JOURNAL PUBLICATIONS

Davis, N.E., Roblyer, M.D., Charania, A., Ferdig, R., **Harms, C.**, Compton, L. & Cho, M.O. (2007). Illustrating the “Virtual” in Virtual Schooling: Challenges and Strategies for Creating Real Tools to Prepare Virtual Teachers. *The Internet and Higher Education*, 10(1), 27-39.

**Harms, C.**, Niederhauser, D., Davis, N., Roblyer, M. D. & Gilbert, S. (2006). Educating Educators for Virtual Schooling: Communicating Roles and Responsibilities. *Electronic Journal of Communication*, 16(1 & 2).

Levine, T. R., Feeley, T., McCornack, S. A., Hughes, M. & **Harms, C.** (2005). Testing the Effects of Nonverbal Behavior Training on Accuracy in Deception Detection with the Inclusion of a Bogus Training Control Group. *Western Journal of Communication*, 69(3), 203-217.

Biocca, F., **Harms, C.**, & Burgoon, J. (2003). Toward a more robust theory and measure of social presence: review and suggested criteria. *Presence: Teleoperators and Virtual Environments (MIT Press)*, 12(5), 456-480.

Park, E. S., Levine, T. R., **Harms, C.** & Fererra, M. (2002). Group and individual accuracy in deception detection. *Communication Research Reports* 19(2).

Krikorian, D., Lee, J., Chock, M. & **Harms, C.** (2000). Isn't that spacial?: Distance and Communication in a 2-D virtual environment. *Journal of Computer Mediated Communication*, 5(4). Annenberg School of Communication [Available at: <http://www.ascusc.org/jcmc/vol5/issue4/krikorian.html>]

#### INVITED PUBLICATIONS

**Harms, C.** (2007). Grooming - Part 2: Information-seeking tactics in social networking websites. *Sex Offender Law Report*, \* 8(4), 49-50, 57-60.

**Harms, C.** (2007). Grooming - Part 1: An operational definition and coding scheme. *Sex Offender Law Report*, \* 8(1), 1-2,9-12.

(\* Publication by editor/editorial board invitation only)

#### REFEREED FULL PROCEEDINGS PUBLICATIONS

(Forthcoming) University of Notre Dame PRME Foresight Case Story. *Inspirational Guide for the Implementation of PRME*, 2013 PRME Summit, Bled, Slovenia.

**Harms, C.** (2006). Human Communication Functions of a Computer Generated Artificial Intelligence Agent: Creating a Tool to be Used by Internet Crimes Against Children (ICAC) Law Enforcement Officers for the Extraction of On-Line Pedophiles. In J. Ferrer, H-W. Chu, D. D. Zenobio, & N. Suarez (Eds.), *Proceedings of the 3rd International Conference on Cybernetics and Information Technologies, Systems and Applications, Vol. 3*, pp. 67-72.

**Harms, C.** (2005). Analysis of mediated social interactions: A matrix of methodological confounds. *Proceedings of the 2005 Human Computer Interaction International Conference*, Hillsdale, NJ: Lawrence Erlbaum. Mira Digital Publishing.

**Harms, C.** & Biocca, F. (2004). Internal consistency and reliability of the networked minds measure of social presence. *Proceedings of the Seventh Annual International Presence Workshop*, 246-251. Valencia, Spain: Universidad Politecnica De Valencia Editorial. [Available at: [http://www.temple.edu/ispr/prev\\_conferences/proceedings/2004/index.html](http://www.temple.edu/ispr/prev_conferences/proceedings/2004/index.html)]

- Biocca, F., Rolland, J., Plantegenest, G., Reddy, C., **Harms, C.**, Owen, C., Tang, A. (2003). Approaches to the design and measurement of social and information awareness in augmented reality systems. In J. A. Jacko & C. Stephanidis (Eds.), *Proceedings of the 2003 Human Computer Interaction International: Theory and practice* (Vol. 2, pp. 844-848). Hillsdale, NJ: Lawrence Erlbaum.
- Biocca, F. & **Harms, C.** (2003). Defining and measuring social presence: Contribution to the networked minds theory and measure. *Proceedings of the Fifth Annual International Presence Workshop*, 7-36. Porto, Portugal: Universidade Fernando Pessoa Press. [Available at: [http://www.temple.edu/ispr/prev\\_conferences/proceedings/2003/index.html](http://www.temple.edu/ispr/prev_conferences/proceedings/2003/index.html)]
- Biocca, F. & **Harms, C.** (2002). Course 49: Understanding Virtual Environments: Immersion, Presence, and Performance; Social Presence. *SIGGRAPH course proceedings, San Antonio, TX. July 22.*
- Harms, C. (2001). Creating a tool to determine the Effectiveness of Collaborative Virtual Environments. *Proceedings from the First Young Investigators Forum in Virtual Reality*. KAIST Press, Daejeon, S. Korea.
- Biocca, F., **Harms, C.** & Gregg, J. L. (2001). The networked minds measure of social presence: Pilot test of the factor structure and concurrent validity. *Proceedings of the Fourth Annual International Presence Workshop, Philadelphia, PA.* [Available at: [http://www.temple.edu/ispr/prev\\_conferences/proceedings/2001/index.htm](http://www.temple.edu/ispr/prev_conferences/proceedings/2001/index.htm)]
- Biocca, F., Burgoon, J., **Harms, C.**, & Stoner, M. (2001). Criteria and scope conditions for a theory and measure of social presence. *Proceedings of the Fourth Annual International Presence Workshop, Philadelphia, PA.* [Available at: [http://www.temple.edu/ispr/prev\\_conferences/proceedings/2001/index.htm](http://www.temple.edu/ispr/prev_conferences/proceedings/2001/index.htm)]

## AWARDS

2010

IBM Smarter Planet Faculty Innovation Award  
 Title: Foresight for a Smarter Planet: Toward the City Sustainable  
 Authors: Coshow, S., Harms, C. M., & Miller, S.  
 \$10,000 Awarded  
 University of Notre Dame

2004-2008

U. S. Department of Education: Fund for the Improvement of Secondary Education  
 Co-Principal Investigator/Team T Leader  
 PI: Niki Davis, Ph.D.  
 Title: Teacher Education Goes Into Virtual Schooling

\$591,849 Awarded  
College of Education, Center for Technology in Learning and Teaching (CTLT)  
Iowa State University

2004 HCI Graduate Fellowship  
ISU Presidential Initiative: Human Computer Interaction  
Funded: Adam Patridge, M.A.  
\$12,500 Awarded

## RESEARCH FEATURED IN POPULAR PRESS

Sam Diez (August 22, 2007). Multi-dimensional Approach for Combating Online Predators, *Washington Post*.

WHO -13 Des Moines Feature Story: Combating Internet Predators. (July 25, 2007)

Kids Count Radio Show, Indiana Coalition Against Child Abuse. (2007)

Talk of Iowa Radio Show, WOI Radio (2007)

## INVITED PRESENTATIONS

Law Enforcement Coordinating Committee Conference  
(2007, September)  
Technological Solutions for Combating Online Sexual Predators  
Presented developing research to the executive law enforcement agents in Iowa and surrounding Midwest states.

Prevent Child Abuse Iowa, 26<sup>th</sup> Annual Conference  
(2007, May) Predatory Grooming on the Internet –Workshop #2

NetSmartz Internet Safety Program  
(2006 – present) Presented internet safety material to K-12 and University students, parents and community organization leaders in central Iowa.

## PROFESSIONAL DEVELOPMENT

Activities include training sessions and conference invitations associated with research.

- Innovation Leadership Immersion two-day education program. (May, 2011)  
Memorial Hospital and Health System – Pfeil Innovation Center, South Bend, IN
- Child Exploitation and On-line Protection Centre, London, England  
(2009, January) Use of the Internet by Child Sex Offenders Training Course
- 3<sup>rd</sup> Virtual Global Taskforce Conference, Vancouver, Canada

(2008, February)

- Association of Schools of Journalism and Mass Communication Workshop: Leadership 2.0: New Tools for Administrators and Development 2.0: New Tools for Development Officers, (2008, February)
- 6<sup>th</sup> Internet Crimes Against Children Training Conference, San Jose, CA (2007, October)
- California Coalition on Sexual Offending: 10th Annual Training Conference (2007, May)
- Invited to the FBI Behavioral Analysis Unit in Quantico, Virginia to meet with Dr. Kristen Beyer, Research Coordinator, National Center for the Analysis of Violent Crime. (2007, February)
- 2<sup>nd</sup> Virtual Global Taskforce Conference, Washington D.C. (2007, February)
- 5<sup>th</sup> Internet Crimes Against Children Training Conference, Dallas, TX (2006, August)
- Invited to the FBI Behavioral Analysis Unit in Quantico, Virginia to meet with Robert Kosky, Jr., Supervisory Special Agent, Unit Chief of BAU-3, FBI Critical Incident Response Group, National Center for the Analysis of Violent Crime. (2005, July)
- Member, American Psychological Association's Division 46 -Media Psychology 2008-present
- Member, Community of Science 2004-present
- Member, World Future Society 2010-present

#### CONFERENCE PRESENTATIONS

**Harms, C.** (2008, July). Conversational Threads in Text-Based ‘Grooming’ Communication. *Paper presented at the International Family Violence and Child Victimization Conference: Portsmouth, NH, July 9.*

**Harms, C.** (2007, July). Analysis of grooming communication. *Paper presented at the International Family Violence and Child Victimization Conference: Portsmouth, NH, July 9.*

- Harms, C. & Patridge, A.** (2006, April). Wireless Internet Chat Insecurity: The Dangers of Wireless Communication. *Paper prepared for the Iowa State University Human Computer Interaction Forum: Ames, IA, April 12.*
- Harms, C.** (2006, April). Social presence as a theoretical format for virtual education. *TACTL (Technology as an Agent of Change in Teaching and Learning) Symposium at the American Educational Research Association (AERA) Conference in San Francisco, CA. April 7.*
- Harms, C.** (2004, July). Perceived Social Presence: Human Communication in Mediated Environments. *Paper presented at the Humanities Conference: Future Human, Monash University Centre: Prato, Italy, July 20-23.*
- Harms, C. & Biocca, F.** (2004, May) Measurement of Social Presence: The M.I.N.D. Lab Social Presence. *Panel presentation at the 54th Annual Conference of the International Communication Association, Information Systems Panel Session: (Tele)Presence: Theory and Measurement Questionnaire. New Orleans, May 27-31.*
- Harms, C., Levine, T., McCornack, S. & Feely, T. H.** (2002). Testing the effects of nonverbal behavior training on accuracy in deception detection with the inclusion of a bogus training control group. *Paper presented at the International Communication Association Conference in Seoul, South Korea July 15-19.*
- Harms, C.** (2000). Uncertainty Reduction in 2-D Multiple User Dimensions. *Paper presented at the International Communication Association Conference, Acapulco, Mexico.*
- Harms, C., Gregg J. L., Rao, M. & Leach, M. J.** (2000). Social proximity and person perception in virtual environments. *Research supported by the MSU Foundation.*
- Harms, C. & Gregg J. L.** (1999). Perception of individuals: Proximity and group association as determinants of attributions.
- Krikorian, D., Taylor, J. and Harms, C.** (1998). Knotting By Netting. *Paper presented at the National Communication Association Conference at New York, NY.*
- Harms, C. & Butler, J.** (1997). Research Proposal: Proposed method for examining climate issues within the professional and social environment at universities. *Paper presented at the Organizational Communication Mini-Conference in West Lafayette, IN, October 1997.*
- Harms, C. & Butler, J.** (1997). Women Faculty: Issues of climate within the professional environment for women faculty at Michigan State University.

Technical report and literature review circulated and presented to the climate subcommittee and women's advisory committee to the Provost. Funding for this project was provided by the Office of the Provost and Women's Resource Center, Michigan State University.

## HONORS & ACHEIVEMENTS

Member, Association of Professional Futurists, (2011 – present)

Outstanding Faculty, Iowa State University Interfraternity Council (March, 2004)

Nominated by Greenlee School faculty for Outstanding Teaching of an Introductory-level Course (December, 2008)

The First Young Investigator's Forum in Virtual Reality, (December, 2000)

The competitive forum was hosted by the Virtual Reality Research Center at the Korean Advanced Institute of Science and Technology, considered the top research university in Asia (Asiacite, 2000)

National Collegiate Boxing Champion, NCBA, 190 lb. (RSC, April, 1994)  
Representing Iowa State University

## TEACHING EXPERIENCE

Research in the above section was used in creating pedagogy in the courses listed below.

### **UNIVERSITY OF NOTRE DAME** (2010- Present)

Notre Dame, Indiana

#### Foresight in Business and Society: BA 30310, (Fall 2010 – Present)

Independent Instructor, responsible for up to 112 junior-level students, exploring the future of various social, technological and environmental topics. Oversee and advise research teams as they develop current assessments, methodologies, scenarios and business opportunities in their area of choice. Responsible for preparing course materials, guiding research projects and coordinating corporate mentorships.

### **IOWA STATE UNIVERSITY** (1995, 2003 – 2004, 2004 - 2010)

Ames, Iowa

#### Graduate Seminar: Social and Ethical Issues in Communication Technology: JI MC/HCI 598P, (Spring, 2009)

Independent Instructor, responsible for 10 graduate students. This course looks at issues that have arisen around communication technologies. Discussion of social



networking websites, cybercrime, information assurance and virtual schooling are all considered. This course serves as a core course for the Iowa State University Human Computer Interaction Graduate Student Program of Study.

Graduate Seminar: Communication in Virtual Reality: JI MC 598, (Spring, 2005 – 2008)

Independent Instructor, responsible for 14 graduate students. This course contains two distinct units: (1) computer mediated communication (exploring how communication literature and theory based in face to face, human to human communication impact communication in virtual social environments and developing technologies) and (2) human computer interaction (exploring how concepts such as virtual and augmented reality, artificial intelligence, robotics, and nanotechnology influence human computer interaction). Research papers incorporate literature, theory and methods discussed in this course. Specific projects in virtual reality research were conducted.

Communication Technology and Societal Change: JI MC 474, (Fall, 2004 – 2009)

Independent Instructor, responsible for up to 80 senior-level students, exploring how communication technologies affect interpersonal, organizational, and mass communication. In addition a unit specifically reviewing Virtual Reality systems and social functions literature was completed. Student groups demonstrated effectiveness through interactive media productions with central social themes. Responsible for preparing syllabus, lectures, and exams.

Technology and Social Change: TSC 341, (Fall 2005 – 2009)

Independent Instructor, responsible for 30 junior-level multi-disciplinary students, conceptualizing technology and the impact of artifacts and processes on social conscience, interaction, and development. Topics include communication technologies, sustainable living, energy, international information technology, and future studies. Students are allowed to guide their focus in this course toward relevance in their own lives and future careers.

Introduction to Mass Communication: JI MC 101, (Summer 2005 – 2009)

Independent Instructor, responsible for 40 freshmen-level multi-disciplinary students, introducing various formats of communication technology as well as career paths in mass communication fields.

Senior Seminar: Communication in the Age of Virtual Reality: CommSt 404/504, (Fall 2003, Spring 2004)

Independent Instructor, responsible for 30 senior-level students, exploring how communication technologies affect interpersonal, organizational, and mass communication. Responsible for preparing syllabus, lectures, exams, and for directing and grading senior research term papers.

Honors Seminar: IMing with Pedophiles: HON 322C, (Spring 2007)

Honors course investigating communication that takes place between online pedophiles and the victims and pseudo-victims with which they interact. Students read and interpreted text communication and completed a summative assessment of information existing in social networking websites.

Organizational Communication: CommSt 314, (Fall 2004)

Independent Instructor, responsible for 30 students, introducing organizational communication theory, effective case study analysis, small-group interaction skills and applications. Responsible for preparing syllabus, lectures, exams.

Professional Communication: CommSt 214, (Spring, Summer 2004)

Independent Instructor, responsible for 35 students, introducing theoretical background of communication in the workplace, effective presentation skills, small-group interaction skills and applications. Responsible for preparing syllabus, lectures, exams.

Statistics for the Social Sciences: Stat 404, (Spring 1995)

Teaching Assistant under Dr. Carl Roberts. Taught basics for conducting, analyzing, and presenting research in the study of sociology. Focus: methods, organization of information and theories.

**MICHIGAN STATE UNIVERSITY (1996 – 2003)**

East Lansing, Michigan

Presence: Communication 891

Teaching Assistant under Dr. Frank Biocca introducing graduate students to Presence, Computer Mediated Communication and Human-Computer Interaction literature. Coordinating research projects including theoretical foundation, data collection and analysis.

Communication in Close Relationships: Communication 425

Independent Instructor, responsible for 16 senior-level students, exploring relationship issues of love, intimacy, conflict and dyadic interactions. Responsible for preparing syllabus, lectures, exams, and for directing and grading senior research term papers.

Topics in Gender Communication: Communication 391

Teaching Assistant under Dr. Kelly Morrison relating gender issues in communication to the organization, family, and interpersonal realms of students' lives.

Introduction to Organizational Communication: Communication 240

Independent Instructor, responsible for 40 students, preparing syllabus, lectures, exams, and for all grading.

Teaching Assistant under multiple instructors responsible for two sections of 50 students each. Create activities to enhance student understanding, lectures, and responsible for grading and supervising two undergraduate teaching assistants each semester.

Introduction to Interpersonal Communication: Communication 225

Independent Instructor, responsible for 90 students, preparing syllabus, lectures, exams, and for all grading.

Teaching Assistant under Dr. Sandi Smith introducing concepts about language, gender, verbal, nonverbal, listening, close relationships, self-concept, and conflict management.

Methods of Communication Inquiry: Communication 200

Teaching Assistant under Dr. Frank Boster instructing on the nature and conduct of communication inquiry. Quantitative communication analysis and methodological scrutiny.

Effective Professional Presentations Workshop

Instruct graduate students, through the Graduate College, Michigan State University, how to effectively present information for conference and courses. Instruction on audience analysis, speech structure and style.

**LANSING COMMUNITY COLLEGE (1997 – 2001)**

Lansing, Michigan

Fundamentals of Public Speaking: Speech 130

Independent Instructor, responsible for 25 students. Responsible for lectures, exams, developing skill builder activities and for all grading.

Dynamics of Communication: Speech 120

Independent Instructor, responsible for 30 students. Responsible for lectures, exams, developing skill builder activities and for all grading.

Oral Communication in the Workplace: Speech 110

Independent Instructor, responsible for one or two sections of 25 students. Responsible for lectures, exams, developing skill builder activities and for all grading.

**DAVENPORT UNIVERSITY (2001)**

Lansing, Michigan

Introduction to Public Speaking

Independent Instructor, responsible for 12 diverse inner-city students. Introduced basic public speaking techniques, effective presentation skills and organizational communication fundamentals.

Interpersonal Communication

Guest Lecturer: Highlighted concepts about verbal and nonverbal communication and how gender intertwines with both in the relationships individuals develop.

**STAR INSTITUTE (2000)**

Lansing, Michigan

Oral Communication in the Workplace: Speech 110

Independent Instructor, responsible for 12 high school students. Responsible for lectures, exams, developing skill builder activities and for all grading.

PROFESSIONAL SERVICE

National Service

*Presence: Teleoperators and Virtual Environments (MIT Press)*, 2009 – present  
Journal Reviewer  
*Virtual Reality*, Journal Reviewer 2009 – present  
*MIS Quarterly*, Journal Reviewer 2008 – present  
*Journal of Child Sexual Abuse*, Journal Reviewer 2008 – 2011  
Association for Education in Journalism and Mass Communication 2005 – 2009  
Conference Paper Reviewer  
Animal Care and Use Committee, Member 2009 – 2010  
United States Department of Agriculture  
Midwest Forensic Resource Center, 2005 - 2010  
Consultant and Communication Liaison  
Ames Lab, Associate 2007 – 2010  
Bureau of Justice Statistics, National Crime Victimization Survey 2006  
Drafted questions on internet predators  
Iowa Internet Crimes Against Children, 2005 - 2008  
Advisory Council & Public Education Committee

University Service

University of Notre Dame Boxing Program (Women's and Men's) 2010 – present  
Volunteer Coach  
University of Notre Dame 2010 – present  
Stadium Usher  
University of Notre Dame May 2011  
Commencement Marshal, Represented the Mendoza College of Business  
Iowa State University Boxing Club  
Faculty Advisor 2007 – 2010  
Coach 2003 – 2010  
Human-Computer Interaction Curriculum Committee 2007 – 2010

Greenlee School of Journalism and Communication	
Diversity Ad Hoc Committee	Summer 2009
Director's Advisory Committee	2008 – 2009
Curriculum Committee	2003 – 2006, 2008 – 2010
Undergraduate Committee	2007 – 2008
Technology Committee	2004 – 2006
Greek Leadership Conference	2007
Iowa State University recruitment commercial "Christine"	2006
Human-Computer Interaction Graduate Student Seminar Group	
Faculty Advisor	2004 – 2008
Iowa State University Leaders and Scholars Program	Spring 2005
New Faculty Orientation Presenter	Summer 2004
Faculty Representative for Freshman Orientation	Summer 2007
Human-Computer Interaction Supervisory Committee	2003 – 2006