

BARBARA STEWART CHAPARRO

Software Usability Research Lab
Department of Psychology
Wichita, KS 67260
(316)978-3683

EDUCATION

Ph.D. Texas Tech University, Lubbock, TX

Experimental Psychology/Human Factors & Industrial Engineering May 1990
College of Arts and Science, Department of Psychology

B.S. University of Richmond, Richmond, VA

Psychology/Business Administration, May 1985
College of Arts and Science, Department of Psychology

EXPERIENCE

Department of Psychology, Wichita State University, Wichita, KS 1998 – present;
Director of Software Usability Research Lab

Editor, Usability News www.usabilitynews.org 1999 – present

Department of Psychology, Wichita State University, Wichita, KS; 1998 – present;
Assistant Professor of Psychology

Cambridge Technology Partners, Inc. (CTP), Cambridge, MA 1994 – 1996;
Director & Enterprise-wide Competency Manager of Human Factors

Easel Corporation, Burlington, MA 1992 - 1994
User Interface Design Engineer/Consultant

IBM Corporation, Poughkeepsie, NY 1990 - 1992
Human Factors Engineer

Texas Tech University, Lubbock, TX 1985 - 1990
Teaching Assistant Administrator and Research Assistant

PUBLICATIONS

Merkle, E., & Chaparro, B. (2009). Using sunflower plots and classification trees to study typeface legibility. *Case Studies in Business, Industry and Government Statistics, Vol 2(2), January, 2009.*

Chaparro, B., Hinkle, V., & Riley, S. (2008). The Usability of Computerized Card Sorting: A Comparison of Three Applications by Researchers and End Users. *Journal of Usability Studies, 4(1), November, 2008.*

Levine, J. & Chaparro, B. (2007). Usability Study of a Distance Continuing Education Website for Human Service Professionals. *Journal of Technology in Human Services*. Vol 25(4), 23-40.

Abdinnour-Helm, S. & Chaparro, B.S. (2007). A Balanced Usability Approach to Evaluate Palestinian Hotel Websites. *Electronic Journal of Information Systems in Developing Countries (EJISDC)*, Vol 31(2), 1-12.

Chaparro, B. & Abdinnour-Helm, S. (2006) A Multi-Pronged Approach to Test the Usability of SAP R/3. *Innovation Monograph II*, October 2006, pp. 115-125.

Hart, T.A., Chaparro, B.S., & Halcomb, C.G. (2006). Evaluating websites for Older Adults: adherence to 'senior-friendly' guidelines and end-user performance, *Behaviour and Information Technology*. Dec 20, 2006.

Whitman, L. Malzahn, D., Chaparro, B., Russell, M., Langrall, R., Mohler, B. (2005). A Comparison of Group Processes, Performance, and Satisfaction in Face-to-Face Versus Computer-Mediated Engineering Student Design Teams, *Journal of Engineering Education*, Vol. 94, No. 3, pp. 327-333.

Abdinnour-Helm, S., Chaparro, B., & Farmer, S. (2005). Using End-User Computing Satisfaction (EUCS) Instrument to Measure Satisfaction with a Web Site. *Decision Sciences*, 36(2).

Bernard, M.L., Hull, S. , & Chaparro, B.S. (2005) Examining the Performance and Preference of Embedded and Framed/Non-Framed Hyperlinks, *International Journal of Industrial Ergonomics*, 35(2), 139-147.

Chaparro, B. & Bernard, Michael. (2004). Website Design. In the Encyclopedia of Human-Computer Interaction, Berkshire Publishing Group LLC.

Chaparro, A., Rogers, B., Hamblin, C. & Chaparro, B. *Evaluation Toolbox for Aviation Technical Writers*. 2004, Federal Aviation Administration: Washington D.C.

Bernard, M. L., Chaparro, B. S., Mills, M., & Halcomb, C. G. (2003). Comparing the effects of text size and format on the readability of computer-displayed Times New Roman and Arial text. *International Journal of Human-Computer Studies*.

Chaparro, B. and Halcomb, C. (2002). University Profiles: Wichita State University and the Software Usability Research Lab. *Interactions*.

Bernard, M. L., Chaparro, B. S., Mills, M. M ,& Halcomb, C. G. (2002). Examining children's reading performance and preference for different computer-displayed fonts. *Behaviour & Information Technology*. Volume 21, Number 2, March 01, 2002, pp. 87-96.

Rogers, M.E., N.L. Rogers, B.S. Chaparro, L. Stumpfhauser, and C.G. Halcomb. (2002). Effects

of modular course training on mobility in older adults aged 79-90 years. *Disability and Rehabilitation*.

Selvidge, P. R., Chaparro, B. S., & Bender, G. T. (2001). The world wide wait: Effects of delays on user performance. *International Journal of Industrial Ergonomics*, 29(1), 15-20.

Chaparro, B. (2001). Top Ten Mistakes of Shopping Cart Design. *Internetworking* (4.1), December. [online] <http://www.internettg.org/newsletter/dec01/contents.html>

Chaparro, B.S. & Halcomb, C.G. (1990). STAR: A Computerized Tutorial in General Psychology. *Journal of Computer-Based Instruction*, 17(4), Autumn issue (also ED 325 114).

Chaparro, B.S. McGregor, L.N., Roberts, S.L., and Weller, D. (1998). Understanding Instructional Design and Its Applications: A Comprehensive View. *Contemporary Psychology*, 43(9), 640-641.

Stewart, B.E. & Young, R.S.L. (1989). The pupillary response: An index of visual threshold. *Applied Optics*, 28(6).

Halcomb, C.G., Chatfield, D.C., Stewart, B.E., Stokes, M.T., Cruse, B.H., & Weimer, J. (1989). A Computer-Based Instructional Management System for General Psychology. *Teaching of Psychology*, 16(3), 148-151.

REFERREED PROCEEDINGS/PRESENTATIONS

Chaparro, B., Fox, D., Shrestha, S., & Owens, J. (2008). Symposium: Website Design, Eye Tracking, Onscreen Reading, and Usability Testing. 54th Meeting of the Southwestern Psychological Society, Kansas City, MO.

Chaparro, A., Chaparro, B., Castenada, M., & Smith, A. (2008). Symposium: Analysis and Design of a Complex Environment for Controlling Unmanned Aerial Vehicles. 54th Meeting of the Southwestern Psychological Society, Kansas City, MO.

Chaparro, B. & Wood, M. (2008). Usability Evaluation of the myWSU Portal. *Sungard Summit 2008*, Anaheim.

Fox, D.E., Chaparro, B. & Merkle, E. (2008) Examining the Onscreen Legibility of the Number "0" and the Number "1". *HFES 2008 Annual Conference*.

Owens, J., Shrestha, S. & Chaparro, B. (2008) Eye-Tracking Patterns of Web Portal Browsing. *HFES 2008 Annual Conference*.

Shrestha, S. & Owens, J. & Chaparro, B. (2008) Eye Movements on a Single-Column and Double-Column Text Layout. *HFES 2008 Annual Conference*.

Lenz, K., Chaparro, A., & Chaparro, B. (2008). The Effect of Input device on First-Person Shooter Target Acquisition. *HFES 2008 Annual Conference*.

Hull, S., Jorgensen, M. & Chaparro, B. (2008) Perceived Usability of Ergonomic Interventions

for Steel Bucking Bars. *HFES 2008 Annual Conference*.

Hinkle, V., Riley, S. & Chaparro, B. (2008) A Usability Comparison of Computerized Card Sorting Applications from the Researcher's Perspective. *HFES 2008 Annual Conference*.

Shrestha, S., Abdinnour-Helm, S., & Chaparro, B. (2008) Using the Analytic Hierarchical Process to Create a Single Usability Score for Website Interfaces. *HFES 2008 Annual Conference*.

Chaparro, B. (2007). Software Design, Evaluation, and Research: Merging Industry and Academia. *Proceedings of the American Psychological Association, San Francisco*.

Fox, D.E., Shaikh, A.D., & Chaparro, B. (2007) The Effect of Typeface on the Perception of Onscreen Documents. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society, Baltimore*.

Shrestha, S., Lenz, K., Owens, J. & Chaparro, B.S., (2007). F-Pattern Scanning of Text and Images on Web Pages. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society, Baltimore*.

Riley, S.K., & Chaparro, B.S. (2007). The Use of Bullets in Textual Web Content. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society, Baltimore*.

Larson, K., Hazlett, R.L., Chaparro, B.S., & Picard, R.W. (2006) Measuring the Aesthetics of Reading. *In Proceedings of the British Conference on Human Computer Interaction. London*.

Stumpfhauser, L., Chaparro, B.S., & Patterson, T. (2006). Impact of an Assessment-Based Exercise Program on Functional Fitness and implications to Independent-Living in Older Adults, *Meeting of the Gerontological Society of America, November, Dallas, TX*.

Shaikh, A.D., & Chaparro, B.S. (2006). Personality of Fonts. Annual Conference of the Association Typographique Internationale, Lisbon, Portugal.

Shaikh, A. D., Chaparro, B. S., & Joshi, A. (2006). Indian Users' Expectations for the Location of Web Objects on Informational Web. *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco*.

Chaparro, B.S., Shaikh, A.D., Chaparro, A. (2006). The Legibility of ClearType Fonts. *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco*.

Shaikh, A.D., Chaparro, B. S., & Fox, D.E. (2006). Personality of ClearType Fonts. *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco*.

Hull, S.S., & Chaparro, B.S., (2006). Usability Evaluation of Digital FlipViewer and Online FlipBooks. *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco*.

Riley, S.K., & Chaparro, B.S. (2006). User Password Generation. *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco*.

Whitman, L.E., and Chaparro, B.S (2006). Efficacy of Virtual Models in a Production Systems Course. Proceedings of the 2006 Midwest Section Conference of the American Society for Engineering Education.

Shaikh, A.D. & Chaparro, B. (2005). The Effects of Line Length on Reading Performance of Online News Articles. *Proceedings of the 49th Annual Meeting of the Human Factors and Ergonomics Society*, Orlando.

Slocum, J., Thompson, S., & Chaparro, B. (2005). Evaluation of Mouse Pads Designed to Enhance Gaming Performance. *Proceedings of the 49th Annual Meeting of the Human Factors and Ergonomics Society*, Orlando.

Shaikh, A.D., Chaparro, B.S., Nelson, W.T., & Joshi, A. (2005). Using metaphors to guide interface design: A case study of Tide.com Stain Detective and users from India. Proceedings of HCI International, 11th Annual Conference of Human Computer Interaction, available on CD.

Chaparro, B. and Bernard, M. (2004). Website Design Based on Empirically Derived Research, Workshop, *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society*, New Orleans.

Hart, T., Chaparro, B. & Halcomb, C. (2004). Designing Web Sites for Older Adults. *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society*, New Orleans.

Shaikh, A.D. & Chaparro, B. (2004). A Survey of Online Reading Habits of Internet Users. *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society*, New Orleans.