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NASA Ames Research Center/San Jose State University
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EDUCATION:

MA, (May, 1994), Psychology, San Jose State University, San Jose, California.
Major Area of Study: Human Factors
Masters thesis: "The effect of automation on workload management and pilot role"
B.A., (1989), Psychology, San Jose State University, San Jose, California
Major Area of Study: General Psychology

RESEARCH EXPERIENCE:

San Jose State University (5/90-7/91)

Position: Research Assistant, Psychology Department, Director: Dr. Kevin Jordan.
Duties: Conducted research on projects in visual perception.
Duties included data collection and debriefing subjects.

NASA Ames Research Center (8/91-12/94)

Position: Research Assistant, Aviation Flight Safety Research Branch.
Duties: Conducted research on projects in aviation human factors (e.g., crew communication and decision making, automation effects in the cockpit). Duties included proposal writing, experimental design, data collection, statistical analysis of data, and manuscript preparation.

NASA Ames Research Center (1/95-present)

Position: Senior Research Associate, Cognitive Performance in Aviation Operations and Training - Human Systems Integration Division
Duties: Conduct research on funded projects in aviation human factors with particular attention to operational teams, including training teams to analyze their own performance and management of attention in concurrent task performance.
Duties are related to all phases of psychological research including literature review, experimental design, data collection, statistical analysis of data, supervision of undergraduate research assistants, and manuscript preparation and publication.

HONORS/AWARDS:

NASA Ames Research Center Honor Awards for Excellence in the category Group/Team, 2000

Publications:

Holbrook, J.B., Puentes, A.F., Stasio, N.J., Jobe, K.K., McDonnell, L.M. & Beard, B.L. (2011) How thoroughly do proposed NextGen mid-term operational improvements address existing threats?, *Proceedings of the 16th International Symposium on Aviation Psychology*. Dayton, OH: The Wright State University

Lee, P., Sheridan, T., Poage, J., Martin, L., Cabral, C. & Jobe, K. (2009). *Identification, characterization, and prioritization of human performance issues and research in the Next Generation Air Transportation System (NextGen)*. NASA NRA NGATS Subtopic 9 for the System Level Design Analysis and Simulation Tools element of the NASA Next Generation Air Transportation System ATM-Airspace Project. San Jose, CA: San Jose State University Foundation.

Cabral, C., Martin, L., Lee, P., & Jobe, K. (2009). Exploration of human factors issues within a future separation assurance concept. In *Proceedings of the Digital Avionics and Systems Conference*, Orlando, FL.

Parke, B., Dismukes, K., & Jobe, K. (2007). *Deep Space Network Operations Survey Report*. Report submitted to Jet Propulsion Laboratory, NASA, Pasadena, CA.

Parke, B., & Jobe, K. (2007). *Overview of Shuttle Flight Controller Ratings on the 2006 Organizational Risk and Tool Development Survey*. Report submitted to Mission Operations Directorate, Johnson Space Center, NASA, Houston, Texas.

Parke, B., & Jobe, K. (2007). *Retaining Shuttle Flight Controllers through the End of the Shuttle Program: A Report Based on Data from the 2006 Shuttle Flight Controller Survey on Organizational Risk and Tool Development*. Report submitted to Mission Operations Directorate, Johnson Space Center, NASA, Houston, Texas.

Parke, B., Jobe, K., & Orasanu, J. (2006). *Overview of ISS Flight Controller Ratings on the Organizational Risk and Tool Development Survey*. Report submitted to Mission Operations Directorate, Johnson Space Center, NASA, Houston, Texas.

Dismukes, R.K., Loukopoulos, L.D., & Jobe, K. (2001). The challenges of managing concurrent and deferred tasks. In R. S. Jensen (Ed.), *Proceedings of the Eleventh International Symposium on Aviation Psychology*. Columbus, OH: Ohio State University.

Dismukes, R. K., McDonnell, L. K., & Jobe, K. K. (2000). Facilitating LOFT Debriefings: Instructor Techniques and Crew Participation. *The International Journal of Aviation Psychology*, 10(1), 35-58.

Dismukes, R. K., McDonnell, L. K., Jobe, K. K., & Smith, G. M. (2000). What is facilitation and why use it? In R. K. Dismukes & G. M. Smith (Eds.) *Facilitation and debriefing in aviation*

training and operations (pp. 1-12). Aldershot, UK: Ashgate.

Dismukes, R. K., Jobe, K. K., & McDonnell, L. K. (2000). Facilitating LOFT debriefings: A critical analysis. In R. K. Dismukes & G. M. Smith (Eds.), *Facilitation in aviation training and operations* (pp. 13-25). Aldershot, UK: Ashgate.

McDonnell, L. K., Jobe, K. K., & Dismukes, R. K. (2000). Facilitating LOS debriefings: Synopsis of a training manual. In R. K. Dismukes & G. M. Smith (Eds.), *Facilitation in aviation training and operations* (pp. 26-50). Aldershot, UK: Ashgate.

McDonnell, L.K., Jobe, K.K., Dismukes, R.K., & Smith, G.M. (1999). The debriefing assessment battery as a facilitation tool. In R. S. Jensen (Ed.), *Proceedings of the Tenth International Symposium on Aviation Psychology* (pp.1084-1087). Columbus, OH: Ohio State University.

McDonnell, L. K., Jobe, K. K. & Dismukes, R. K. (1997). Facilitating LOS debriefings: A training manual. *NASA Technical Memorandum 112192*. Moffett Field, CA: NASA Ames Research Center.

Dismukes, R. K., Jobe, K. K., & McDonnell, L. K. (1997). LOFT debriefings: An analysis of instructor techniques and crew participation. *NASA Technical Memorandum 110442*. Moffett Field, CA: NASA Ames Research Center.

Dismukes, R. K., McDonnell, L. K., Jobe, K. K., & Gregorich, S. E. (1995) A survey and analysis of LOFT debriefing techniques. In R. S. Jensen (Ed.), *Proceedings of the Eighth International Symposium on Aviation Psychology* (pp 651-657). Columbus, OH: Ohio State University.

Segal, L., & Jobe, K. K. (1995). On the use of visual activity communication in the cockpit. In R. S. Jensen (Ed.), *Proceedings of the Eighth International Symposium on Aviation Psychology* (pp. 712-717). Columbus, OH: Ohio State University Press.

Jobe, K. K. (1994). The effect of automation on workload management and pilot role (Master's thesis, San Jose State University, 1994). Masters Abstracts International.

Kanki, B. G., Veinott, E., Irwin, C., & Jobe, K. K. (1994). Effects of automation on crew communication and coordination. In *Research and Technology 1994*. (NASA Technical Memorandum 108858, pp. 71-72). Moffett Field, CA: NASA Ames Research Center.

Presentations:

Cabral, C., Martin, L., Lee, P., & Jobe, K. (Oct., 2009). Exploration of human factors issues within a future separation assurance concept. Paper presented at the *Digital Avionics and Systems Conference*, Orlando, FL, Oct. 28, 2009.

Parke, B., Dismukes, K., & Jobe, K. (2007, Nov.) Human Factors Report on Deep Space Network (DSN) Survey Report. Presentation to Human/Systems Integration Division Management, NASA Ames Research Center, Moffett Field: CA, Nov. 2, 2007.

McDonnell, L. K., Jobe, K. K., & Dismukes, R. K. (1997, April). *Facilitating LOS debriefings: A training manual*. Presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH.

Jobe, K. K. (1994, April). *The effect of automation on workload management and pilot role*. Poster session presented at the 14th Biannual Applied Behavioral Science Symposium, Colorado Springs, CO.