

# KIM-PHUONG L. VU

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## EDUCATION

August 2003: **Doctor of Philosophy in Psychological Sciences**

**Purdue University**, West Lafayette, IN  
GPA = 4.0 (0-4.0 scale)

Dec 2000: **Master of Science in Psychological Sciences**

**Purdue University**, West Lafayette, IN  
GPA = 4.0 (0-4.0 scale)

May 1999: **Bachelor of Arts in Psychology**

**California State University Long Beach**, Long Beach, CA  
GPA = 4.0 (0-4.0 scale); Summa Cum Laude

## POST-DOCTORAL ACADEMIC APPOINTMENTS

Aug 07-present: **Associate Professor**

California State University Long Beach, Long Beach, CA: Department of Psychology

Aug 05-Aug 07: **Assistant Professor**

California State University Long Beach, Long Beach, CA: Department of Psychology

Aug 04-July 05: **Assistant Professor**

California State University Northridge, Northridge, CA: Department of Psychology

Aug 03-July 04: **Post-Doctoral Researcher**

Purdue University, West Lafayette, IN: Department of Psychological Sciences

Aug 03-Dec 03: **Limited-Term Lecturer**

Purdue University, West Lafayette, IN: Department of Psychological Sciences

## HONORS AND AWARDS

CSULB Scholarly and Creative Activities Committee (SCAC) Award: AY 06-07, 07-08, 08-09

Invited Speaker, *Responding toward the source of stimulation: An interdisciplinary conference in tribute to J. Richard Simon*. Iowa City, Iowa. October 2008.

Early Promotion to Associate Professor: 2007

Early Tenure: 2007

Post-Doctoral Research Fellow: 2003-2004

Jacob Javits Fellowship, US Department of Education: 1999-2003

C. Eugene Walker Outstanding Graduate Student Award: 2002

Purdue University Research Assistantship: Fall 2000

Human Factors and Ergonomics Society Student Member with Honors: 2000

Purdue University Special Initiatives Fellowship: 1999-2000

Phi Beta Kappa: Inducted 1999

Lucio Morales Academic Achievement Award: 1999

Outstanding Graduating Senior in Psychology: 1998-1999

Sally Casanova Pre-Doctoral Scholarship: 1998-1999

NIMH-Careers Opportunities in Research (COR) Scholar: 1998-1999

Phi Kappa Phi: Inducted 1998; Phi Kappa Phi Scholarship: 1998

Psi Chi: Inducted 1998

Golden Key Honor Society: Inducted 1997

## TEACHING EXPERIENCE

### Undergraduate Courses:

PSY 200 (lecture): Research Methods (Fall 2005; Spring 2006)  
 PSY 200 (lab): Research Methods (Fall 2005; Spring 2006)  
 PSY 327I: Introduction to Human Factors (Fall 2008)  
 PSY 329B: Advanced Research in Mental Health II (Spring 2008)  
 PSY 332: Cognition (Fall 2006, 2007; Spring 2009)  
 PSY 390: Special Topics in Psychology (Fall 2005)  
 PSY 403: Perception and Cognition (Fall 2004; Spring 2005)  
 PSY 403L: Lab in Perception and Cognition (Fall 2004; Spring 2005)  
 PSY 427: Human Factors (Fall 2005, 2006, 2007, Fall 2008)

### Graduate Courses:

PSY 527: Human Factors (Fall 2005, 2006, 2007)  
 PSY 637: Seminar in Cognition (Spring 2005)  
 PSY 633: Seminar in Perception and Attention (Spring 2006, 2007, 2008)

### Tutorial Co-Instructor:

*Human Information Processing for HCI*. Human Computer Interaction International 2007 Conference (with R. W. Proctor). July 22-27, 2007. Beijing, China.  
*An Overview of Human Information Processing for Human-Computer Interaction*. Human Computer Interaction International 2005 Conference (with R. W. Proctor). July 22-27, 2005. Las Vegas, NV.  
*Human Factors Issues in Information Security*. Human Computer Interaction International 2005 Conference (with R. W. Proctor). July 22-27, 2005. Las Vegas, NV.  
*Human Information Processing for HCI* presented at the International Human Computer Interaction 2003 Meeting (with R. W. Proctor). June 22-28, 2003. Crete, Greece.  
*Human Factors Issues in Information Security* presented at the International Human Computer Interaction 2003 Meeting (with E. Eugene Schultz and R. W. Proctor). June 22-28, 2003. Crete, Greece.

### Interdisciplinary Teaching Activities:

- Developed PSY 327I: Introduction to Human Factors course
- Students from PSY 427/527: Human Factors, Fall 05, presented usability lab project to Professor Tom Jewett's CECS 470 - WORLD-WIDE WEB DEVELOPMENT course in Spring 06.

## STUDENT ADVISING

August 2005-2007: Faculty Advisor for **Human Factors and Ergonomics Society Student Chapter**

\*Awarded: **Best Student Chapter** by the national society in 2006.

\*Awarded: **Best Student Chapter, GOLD (highest) level** by the national society in 2007.

AY 2005-2006: Faculty Co-Advisor for **PSI CHI**

Fall 2005; Sum 2006, 2007, 2008; Spring 2008: Faculty Co-Advisor for **COR (Career Opportunities in Research) Program**

## RESEARCH INTERESTS

My research interests include basic and applied research on cognition and human performance. Specific areas of interest include:

- Action Selection and Stimulus-Response Compatibility
  - \* Two-Dimensional Compatibility
  - \* Mixing Tasks
  - \* Modality Relationship Among Stimulus and Response Sets
  - \* Psychophysiological Basis of Compatibility Effects
  - \* Aging and Response-Selection
- Attention
- Human Factors and Human-Computer Interaction
  - \* Web Design; Usability Testing
  - \* Computer and Information Security and Privacy
  - \* Metrics for Situation Awareness and Mental Workload

## PUBLICATIONS

### Books:

1. Proctor, R. W., & Vu, K.-P. L. (2006). *Stimulus-response compatibility principles: Data, theory, and application*. Boca Raton, CRC Press.
2. Proctor, R. W., & Vu, K.-P. L. (Eds.) (2005). *Handbook of human factors in web design*. Mahwah, NJ: Erlbaum.

### Journal Publications:

1. Proctor, R. W., Yamaguchi, M., Zhang, Y., & Vu, K.-P. L. (in press). Influence of Visual Stimulus Mode on Transfer of Acquired Spatial Associations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
2. Proctor, R. W., & Vu, K.-P. L. (in press). Determinants of the benefit for consistent stimulus-response mappings in dual-task performance of four-choice tasks. *Attention, Perception & Psychophysics*.
3. Proctor, R. W., & Vu, K.-P. L. (in press). Task-defined associations are mode specific for selection of relevant dimension but mode independent for selection of location mapping. *Quarterly Journal of Experimental Psychology*.
4. Melara, R. D., Wang, H., Vu, K.-P. L., & Proctor, R. W. (2008). Attentional origins of the Simon effect: Behavioral and electrophysiological evidence. *Brain Research, 1215*, 147-159.
5. Pellicano, A., Vu, K.-P. L., Proctor, R. W., Nicoletti, R., & Umiltà C. (2008). Effects of stimulus-stimulus short-term memory associations in a Simon-like task. *European Journal of Cognitive Psychology, 20*, 893-912.
6. Proctor, R. W., Ali, M. A., & Vu, K.-P. L. (2008). Examining usability of Web privacy policies. *International Journal of Human-Computer Interaction, 24*, 307-328.

7. Proctor, R. W., Koch, I., Yamaguchi, M., & Vu, K.-P. L. (2008). Influence of display type and cue format on task-cuing effects: Dissociating switch-cost and right-left prevalence effects. *Memory & Cognition*, *36*, 998-1012.
8. Vu, K.-P. L., & Proctor, R. W. (2008). Age differences in response selection for pure and mixed stimulus-response mappings and tasks. *Acta Psychologica*, *129*, 49-60.
9. Proctor, R. W., & Vu, K.-P. L. (2007). A multimethod approach to examining usability of Web privacy polices and user agents for specifying privacy preferences. *Behavioral Research Methods*, *39*, 205-211.
10. Proctor, R. W., Yamaguchi, M., & Vu, K.-P. L. (2007). Transfer of noncorresponding spatial associations to the auditory Simon task. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *33*, 245-253.
11. Vu, K.-P. L. (2007). Influences on the Simon effect of prior practice with spatially incompatible mappings: Transfer within and between horizontal and vertical dimensions. *Memory & Cognition*, *35*, 1463-1471.
12. Vu, K.-P. L., Proctor, R. W., Bhargav-Spantzel, A., Tai, B.-K., Cook, J., Schultz, E. E. (2007). Improving password security and memorability to protect personal and organizational information. *International Journal of Human-Computer Studies*, *65*, 744-757.
13. Proctor, R. W., Koch, I., & Vu, K.-P. L. (2006). Effects of precuing horizontal and vertical dimensions on right-left prevalence. *Memory & Cognition*, *34*, 949-958.
14. Proctor, R. W., & Vu, K.-P. L. (2006). The cognitive revolution at age 50: Has the promise of the human information processing approach been fulfilled? *International Journal of Human-Computer Interaction*, *21*, 253-284.
15. Proctor, R. W., Vu, K.-P. L., & Pick, D. F. (2006). A deficit in effortful selection of cued responses for older adults. *Journal of Motor Behavior*, *38*, 265-284.
16. Rubichi, S., Vu, K.-P. L., Nicoletti, R., & Proctor, R. W. (2006). Spatial coding in two dimensions. *Psychonomic Bulletin & Review*, *13*, 201-216.
17. Vu, K.-P. L., & Proctor, R. W. (2006). Emergent perceptual features in the benefit of consistent stimulus-response mappings on dual-task performance. *Psychological Research*, *70*, 468-483.
18. Vu, K.-P. L., Strybel, T. Z., & Proctor, R. W. (2006). Effects of displacement magnitude and direction of auditory cues on auditory spatial facilitation. *Human Factors*, *48*, 587-599.
19. Proctor, R. W., Pick, D. F., Vu, K.-P. L., & Anderson, R. E. (2005). The enhanced Simon effect for older adults is reduced when the irrelevant location information is conveyed by an accessory stimulus. *Acta Psychologica*, *119*, 21-40.
20. Proctor, R. W., Vu, K.-P. L., & Pick, D. F. (2005). Aging and response selection in spatial choice tasks. *Human Factors*, *47*, 250-270.
21. Urcuioli, P., Vu, K.-P. L., & Proctor, R. W. (2005). A Simon effect in pigeons. *Journal of Experimental Psychology: General*, *134*, 93-107.

22. Vu, K.-P. L., Pellicano, A., & Proctor, R. W. (2005). No overall right-left prevalence for horizontal and vertical Simon effects. *Perception & Psychophysics*, *67*, 929-938.
23. Hommel, B., Proctor, R. W., & Vu, K.-P. L. (2004). A feature-integration account of sequential effects in the Simon task. *Psychological Research/Psychologische Forschung*, *68*, 1-17.
24. Vu, K.-P. L., & Proctor, R. W. (2004). Mixing compatible and incompatible mappings: Elimination, reduction, and enhancement of spatial compatibility effects. *Quarterly Journal of Experimental Psychology* *57A*, 539-556.
25. Proctor, R. W., Vu, K.-P. L., & Marble, J. G. (2003). Eliminating spatial compatibility effects for location-relevant trials by intermixing location-irrelevant trials. *Visual Cognition*, *10*, 15-50.
26. Proctor, R. W., Vu, K.-P. L., Najjar, L., Vaughan, M. W., & Salvendy, G. (2003). Content preparation and management for E-commerce Web sites. *Communications of the ACM*, *46* (12ve), 289-299.
27. Proctor, R. W., Vu, K.-P. L., Nicoletti, R. (2003). Does right-left prevalence occur for the Simon effect? *Perception & Psychophysics*, *65*, 1318-1329.
28. Vu, K.-P. L., & Proctor, R. W. (2003). Naïve and experienced judgments of stimulus-response compatibility: Implications for interface design. *Ergonomics*, *46*, 169-187.
29. Vu, K.-P. L., Proctor, R. W., & Urcuioli, P. (2003). Transfer effects of incompatible location-relevant mappings on a subsequent visual or auditory Simon task. *Memory & Cognition*, *31*, 1146-1152.
30. Proctor, R. W., Lien, M.-C., Vu, K.-P. L., Schultz, E. E., & Salvendy, G. (2002). Influence of restrictions on password generation and recall. *Behavior Research Methods, Instruments, and Computers*, *34*, 163-169.
31. Proctor, R. W., & Vu, K.-P. L. (2002). Mixing location irrelevant and relevant trials: Influence of stimulus mode on spatial compatibility effects. *Memory & Cognition*, *30*, 281-294.
32. Proctor, R. W., Vu, K.-P. L., Salvendy, G., Degan, H., Fang, X., Flach, J. M., Gott, S. P., Herrmann, D., Kromker, H., Lightner, N. J., Lubin, K., Najjar, L., Reeves, L., Rudorfer, A., Stanney, K., Stephanidis, C., Strybel, T., Vaughan, M., Wang, H., Weber, H., Yang, Y., & Zhu, W. (2002). Content preparation and management for web design: Eliciting, structuring, searching, and displaying information. *International Journal of Human-Computer Interaction*, *14*, 25-92.
33. Proctor, R. W., Wang, H., & Vu, K.-P. L. (2002). Influences of conceptual, physical, and structural similarity on stimulus-response compatibility. *Quarterly Journal of Experimental Psychology*, *55A*, 59-74.
34. Vu, K.-P. L., & Proctor, R. W. (2002). The prevalence effect in two-dimensional compatibility is a function of the relative salience of the dimensions. *Perception & Psychophysics*, *64*, 815-828.
35. Vu, K.-P. L., & Proctor, R. W. (2001). Determinants of right-left and top-bottom prevalence for two-dimensional spatial compatibility effects. *Journal of Experimental Psychology: Human Perception and Performance*, *27*, 813-828.

36. Proctor, R. W., Marble, J. G., & Vu, K.-P. L. (2000). Mixing incompatibly mapped location-relevant trials with location-irrelevant trials: Effects of stimulus mode on the Simon effect. *Psychological Research/ Psychologische Forschung*, 64, 11-24.
37. Vu, K.-P. L., Hanley, G. L., Strybel, T. Z., & Proctor, R. W. (2000). Metacognitive processes in human-computer interaction: Self-assessments of knowledge as predictors of computer expertise. *International Journal of Human-Computer Interaction*, 12, 43-71.
38. Vu, K.-P. L., Proctor, R. W., & Pick, D. F. (2000). Vertical versus horizontal compatibility: Left-right prevalence with bimanual keypresses. *Psychological Research/Psychologische Forschung*, 64, 25-40.
39. Proctor, R. W., & Vu, K.-P. L. (1999). Index of psychonomic norms. *Behavior Research Methods, Instruments, and Computers*, 31, 659-667.

### **Refereed Book Chapters and Proceedings Papers**

1. Proctor, R. W., & Vu, K.-P. L. (in press). Human factors and ergonomics. In H. Bidgoli (Ed.), *The Handbook of Technology Management*. New York: John Wiley.
2. Proctor, R. W., & Vu, K.-P. L. (in press). Human sensation and perception. In J. G. Voeller (Gen. Ed.), *Wiley handbook of science and technology for homeland security*. Hoboken, NJ: John Wiley & Sons.
3. Proctor, R. W., Schultz, E. E., & Vu, K.-P. L. (2009). Human factors in information security and privacy. In J. N. D. Gupta and S. K. Sharma (Eds) *Handbook of Research on Information Security and Assurance* (pp. 402-414). Hershey, PA: Idea Group Inc.
4. Pierce, R., Vu, K.-P. L., Nguyen, J., & Strybel, T. (2008). The relationship between SPAM, workload, and task performance on a simulated ATC task. *Proceedings of the Human Factors and Ergonomics Society 52<sup>nd</sup> Annual Meeting* (pp. 34-38). New York, NY.
5. Pierce, R., Strybel, T., & Vu, K.-P. L. (2008). Comparing situation awareness measurement techniques in a low fidelity air traffic control simulation. *Proceedings of the 26th International Congress of the Aeronautical Sciences (ICAS)*. Anchorage, AS.
6. Strybel, T. Z., Vu, K.-P. L., Kraft, J., & Minakata, K. (2008). Assessing the situation awareness of pilots engaged in self spacing. *Proceedings of the Human Factors and Ergonomics Society 52<sup>nd</sup> Annual Meeting* (pp. 11-15). New York, NY.
7. Vu, K.-P. L., Proctor, R. W., & O'Brien, D. (2008). Influence of password updating on generation and retention of passwords. *Proceedings of the Applied Human Factors and Ergonomics 2<sup>nd</sup> International Conference (CD)*. Las Vegas, NV.
8. Proctor, R. W., Vu, K.-P. L., & Ali, M. A. (2007). Usability of User Agents for Privacy-Preference Specification. In M. J. Smith & G. Salvendy (Eds), *Human Interface, Part II, HCII 2007, Lecture Notes in Computer Science 4558* (pp. 766–767). Berlin: Springer-Verlag.
9. Strybel, T. Z., Vu, K.-P. L., Dwyer, J. P., Kraft, J., Ngo, T. K., Chambers, V., & Garcia, F. P. (2007). Predicting perceived situation awareness of low altitude aircraft in terminal airspace using probe questions. J. Jacko (Ed), *Human-Computer Interaction, Part I, HCII 2007, Lecture Notes in Computer Science 4550* (pp. 939–948). Berlin: Springer-Verlag.

10. Vu, K.-P. L., Chambers, V., Garcia, F. P., Creekmur, B., Sulaitis, J., Nelson, D., Pierce, R., & Proctor, R. W. (2007). How users read and comprehend privacy policies. In M. J. Smith & G. Salvendy (Eds), *Human Interface, Part II, HCII 2007, Lecture Notes in Computer Science 4558* (pp. 802-811). Berlin: Springer-Verlag.
11. Vu, K.-P. L., Garcia, F. P., Nelson, D., Sulaitis, J., Creekmur, B., Chambers, V., & Proctor, R. W. (2007). Examining user privacy practices while shopping online: What are users looking for? In M. J. Smith & G. Salvendy (Eds), *Human Interface, Part II, HCII 2007, Lecture Notes in Computer Science 4558* (pp. 792–801). Berlin: Springer-Verlag.
12. Dwyer, J. P., Strybel, T. Z., & Vu, K.-P. L. (2006). Simulation of Multiple Uninhabited Aerial Vehicles Operating in an Airport Terminal Area. *RTO-MP-HFM-135: RTO HFM Symposium on Human Factors of Uninhabited Military Vehicles as Force Multipliers*.
13. Strybel, T. Z., Canton, R., Battiste, V., Johnson, W., & Vu, K.-P. L. (2006). Recommendations for conducting real time human in the loop simulations over the internet. *Proceedings of Human Factors and Ergonomics Society 50<sup>th</sup> Annual Meeting* (pp. 146-150). San Francisco, CA: HFES.
14. Vu, K.-P. L., Dion, M., Chambers, V., Ngo, T., Nelson, D., Kraft, J., & Strybel, T. Z. (2006). Pilot strategies for managing multiple ROVs in terminal airspace. *Proceedings of the Human Factors and Ergonomics Society 50<sup>th</sup> Annual Meeting* (pp.151-155). San Francisco, CA: HFES.
15. Proctor, R. W., & Vu, K.-P. L. (2006). Laboratory Studies of Training, Skill Acquisition, and Retention of Performance. In A. Ericsson, N. Charness, R. Hoffman, and Felrovich (Eds.) *The Cambridge Handbook of Expertise and Expert Performance* (pp. 265-286). New York: Cambridge University Press.
16. Proctor, R. W., & Vu, K.-P. L. (2006). Location and arrangement of displays and control actuators. In W. Karwowski (Ed.) *Handbook of Human Factors and Ergonomics Standards* (pp. 399-409). Mahwah, NJ: Erlbaum.
17. Proctor, R. W., & Vu, K.-P. L. (2006). Selection and control of action. In G. Salvendy (Ed.) *Handbook of Human Factors and Ergonomics (3<sup>rd</sup> ed.)* (pp. 89-110). Hoboken, NJ: Wiley.
18. Proctor, R. W., & Vu, K.-P. L. (2006). Stimulus-response compatibility. In W. Karwowski (Ed.) *International Encyclopedia of Ergonomics and Human Factors (2<sup>nd</sup> ed.)* (pp. 941-945). Boca Raton, FL: CRC Press.
19. Vu, K.-P. L., Cook, J., Bhargav, A., & Proctor, R. W. (2006, April). Short-term and long-term retention of passwords generated by first-letter and entire-word mnemonic methods. *Proceedings of the 5<sup>th</sup> Annual Security Conference*. Published on CD-ROM.
20. Vu, K.-P. L. & Proctor, R. W. (2006). Human Information Processing and HCI. In W. Karwowski (Ed.) *International Encyclopedia of Ergonomics and Human Factors (2<sup>nd</sup> ed.)* (pp. 1130-1134). Boca Raton, FL: CRC Press.
21. Vu, K.-P. L. & Proctor, R. W. (2006). Web design and evaluation. In G. Salvendy (Ed.) *Handbook of Human Factors and Ergonomics (3<sup>rd</sup> ed.)* (pp. 1317-1343). Hoboken, NJ: Wiley.

22. Proctor, R. W., Tan, H. Z., Vu, K.-P. L., Gray, R., & Spence, C. (2005). Implications of compatibility and cuing effects for multimodal interfaces. In D. D. Schmorow (Ed.), *Foundations of augmented cognition* (pp. 3-12). Mahwah, NJ: Erlbaum.
23. Proctor, R. W., & Vu, K.-P. L. (2005). Roles of task-defined associations and reference frames in spatial stimulus-response compatibility. In A. Healy (Ed.) *Experimental cognitive psychology and its applications: Festschrift in honor of Lyle Bourne, Walter Kintsch, and Thomas Landauer* (pp. 141-153). Washington, DC: American Psychological Association.
24. Vu, K.-P. L. & Proctor, R. W. (2005). An overview of human factors in web and application design. *Proceedings of HCII 2005*. Electronic Version Published on CD ROM.
25. Zhu, W., Vu, K.-P. L., & Proctor, R. W. (2005). Evaluating web usability. In R. W. Proctor and K.-P. L. Vu (Eds.) *Handbook of Human Factors in Web Design* (pp. 321-337). Mahwah, NJ: Erlbaum.
26. Proctor, R. W., & Vu, K.-P. L. (2004). Attention and displays. In A. Johnson, & R. W. Proctor, *Attention: Theory and practice* (pp. 1-27). Thousand Oaks, CA: Sage.
27. Proctor, R. W., & Vu, K.-P. L. (2004). Historical overview of attention. In A. Johnson, & R. W. Proctor, *Attention: Theory and practice* (pp. 227-259). Thousand Oaks, CA: Sage.
28. Proctor, R. W., & Vu, K.-P. L. (2004). Human Factors and Ergonomics for the Internet. In H. Bidgoli (Ed.) *The Internet encyclopedia* (pp. 141-149). Hoboken, NJ: Wiley.
29. Vu, K.-P. L., Tai, B.-L., Bhargav, A., Schultz, E. E., & Proctor, R. W. (2004). Promoting memorability and security of passwords through sentence generation. *Proceedings of the 48<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1478-1482). Santa Monica, CA: HFES.
30. Proctor, R. W., Capaldi, E. J., & Vu, K.-P. L. (2003). Experimental methods in psychology. In L. Nadel (Ed.) *Encyclopedia of cognitive science* (Volume 3, pp. 794-799). London: Nature Publishing Group.
31. Proctor, R. W., & Vu, K.-P. L. (2003). Action selection. In A. F. Healy, & R. W. Proctor, (Eds.), *Experimental psychology*. Volume 4 of the *Handbook of psychology* (pp. 293-316), Editor-in-Chief: I. B. Weiner. Hoboken, NJ: Wiley.
32. Proctor, R. W., & Vu, K.-P. L. (2003). Human information processing: An overview for human-computer interaction. In J. A. Jacko and A. Sears (Eds.), *The Human-computer interaction handbook: Fundamentals, evolving technologies, and emerging applications* (pp. 35-51). Mahwah, NJ: Erlbaum.
33. Vu, K.-P. L., Bhargav, A., & Proctor, R. W. (2003). Imposing password restrictions for multiple accounts: Impact on generation and recall of passwords. *Proceedings of the 47<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1331-1335). Santa Monica, CA: HFES.
34. Proctor, R. W., & Vu, K.-P. L. (2002). Eliminating, magnifying, and reversing spatial compatibility effects with mixed location-relevant and irrelevant trials. In W. Prinz and B. Hommel (Eds.) *Common mechanisms in perception and action: Attention and performance Vol. XIX* (pp. 443-473). Oxford: Oxford University Press.
35. Vu, K.-P. L., & Proctor, R. W. (2001). Stimulus-response compatibility in interface design. In M. J. Smith, G. Salvendy, D. Harris, and R. J. Koubek (Eds.), *Usability evaluation and interface design*:

*Cognitive engineering, intelligent agents, and virtual reality* (Vol. 1, pp. 1368-1372). Mahwah, NJ: Erlbaum.

### **Book Reviews and Commentaries:**

1. Proctor, R. W., & Vu, K.-P. L. (2002). To infinity and beyond dissociation! A review of *Beyond dissociation: Interaction between dissociated implicit and explicit processing*. *Contemporary Psychology*, 47, 367-370.
2. Proctor, R. W., & Vu, K.-P. L. (2001). Oh, so many words! A review of *An Invitation to Cognitive Science Volume 4: Methods, Models, and Conceptual Issues*. *Contemporary Psychology*, 46, 168-171.
3. Proctor, R. W., & Vu, K.-P. L. (2001). TEC: Integrated View of Perception and Action or Framework for Response Selection? *Behavioral and Brain Sciences*, 24, 899-900.

### **CONFERENCE PRESENTATIONS**

#### **Paper Presentations:**

1. Vu, K.-P. L. (2008, October). Influence of practiced stimulus-response mappings on the Simon effect. Invited talk given at *Responding toward the source of stimulation: An interdisciplinary conference in tribute to J. Richard Simon*. Iowa City, Iowa.
2. Strybel, T. Z., Kraft, J., & Vu, K.-P.L. (2008, September). Assessing the situation awareness of pilots engaged in self spacing. *52<sup>nd</sup> Human Factors and Ergonomics Society Annual Meeting*. New York, NY.
3. Pierce, R., Vu, K.-P. L., & Strybel, T. (2008, September). The relationship between SPAM, workload, and task performance on a simulated ATC task. *52<sup>nd</sup> Human Factors and Ergonomics Society Annual Meeting*. New York, NY.
4. Pierce, R., Strybel, T., & Vu, K.-P. L. (2008, September). A comparison of the validity of situation awareness measures in a simulated air traffic control task. *International Council of the Aeronautical Sciences (ICAS) 2008 Congress*. Anchorage, AS.
5. Vu, K.-P. L., Proctor, R. W., & O'Brien, D. (2008, July). Influence of password updating on generation and retention of passwords. *Applied Human Factors and Ergonomics 2<sup>nd</sup> International Conference*. Las Vegas, NV.
6. Chambers, V., Vu, K.-P. L., Proctor, R. W., & Cho, D. (2007, November). Influence of the Privacy Bird™ User Agent on User Trust of Different Web Sites. *37<sup>th</sup> Annual Meeting of the Society for Computers in Psychology*. Long Beach, CA.
7. Vu, K.-P. L., & Proctor, R. W. (2007, November). Dual-task performance with consistent and inconsistent stimulus-response mappings. *48<sup>th</sup> Annual Meeting of the Psychonomics Society*. Long Beach, CA.
8. Proctor, R. W., Vu, K.-P. L., & Ali, M. A. (2007, July). Usability of User Agents for Privacy-Preference Specification. *Human Computer Interaction International 2007 Conference*. Beijing, China.

9. Strybel, T. Z., Vu, K.-P. L., Dwyer, J. P., Kraft, J., Ngo, T. K., Chambers, V., & Garcia, F. P. (2007, July). Predicting perceived situation awareness of low altitude aircraft in terminal airspace using probe questions. *Human Computer Interaction International 2007 Conference*. Beijing, China.
10. Vu, K.-P. L., Chambers, V., Garcia, F. P., Creekmur, B., Sulaitis, J., Nelson, D., Pierce, R., & Proctor, R. W. (2007, July). How users read and comprehend privacy policies. *Human Computer Interaction International 2007 Conference*. Beijing, China.
11. Vu, K.-P. L., Garcia, F. P., Nelson, D., Sulaitis, J., Creekmur, B., Chambers, V., McMath, J., & Proctor, R. W. (2007, July). Examining user privacy practices while shopping online: What are users looking for? *Human Computer Interaction International 2007 Conference*. Beijing, China.
12. Proctor, R. W., Zhang, Y., Yamaguchi, M., & Vu, K.-P. L. (2007, April). Modulation of the Simon effect by learned incompatible S-R associations. *Cardiff Meeting of the Experimental Psychology Society and the Belgian Association for Psychological Science*. Cardiff, Wales, UK.
13. Proctor, R. W., Vu, K.-P. L., & Yamaguchi, M. (2006, November). Transfer of noncorresponding spatial mappings to the auditory Simon task. *47<sup>th</sup> Annual Meeting of the Psychonomics Society*. Houston, TX.
14. Vu, K.-P. L. (2006, November). Influence of practice with incompatible mappings on the Simon effect. *47<sup>th</sup> Annual Meeting of the Psychonomics Society*. Houston, TX.
15. Proctor, R. W., & Vu, K.-P. L. (2006, November). Qualitative and quantitative analyses of Web privacy policies and preferences. *36<sup>th</sup> Annual Meeting of the Society for Computers in Psychology*. Houston, TX.
16. Vu, K.-P. L., Chambers, V., Derby, P., Erselius, K., Gracia, F., Kraft, J., Marquez, P., McMath, J., Nelson, D., Ngo, T., Pekarek, C. & Wiebe, J. (2006, November). Combining teaching, learning, and service: Teaching usability evaluation methods using a department Web site. *36<sup>th</sup> Annual Meeting of the Society for Computers in Psychology*. Houston, TX.
17. Dwyer, J. P., Strybel, T. Z., & Vu, K.-P. L. (2006, October). Simulation of Multiple Uninhabited Aerial Vehicles Operating in an Airport Terminal Area. Paper presented at the *RTO HFM Symposium on "Human Factors of Uninhabited Military Vehicles as Force Multipliers."* Biarritz, France.
18. Strybel, T. Z., Canton, R., Battiste, V., Johnson, W., & Vu, K.-P. L. (2006, October). Recommendations for conducting real time human in the loop simulations over the internet. *Human Factors and Ergonomics Society 50<sup>th</sup> Annual Meeting*. San Francisco, CA.
19. Vu, K.-P. L., Dion, M., Chambers, V., Ngo, T., Nelson, D., Kraft, J., & Strybel, T. Z. (2006, October). Pilot strategies for managing multiple ROVs in terminal airspace. *Human Factors and Ergonomics Society 50<sup>th</sup> Annual Meeting*. San Francisco, CA.
20. Vu, K.-P. L., Cook, J., Bhargav, A., & Proctor, R. W. (2006, April). Short-term and long-term retention of passwords generated by first-letter and entire-word mnemonic methods. *The 5<sup>th</sup> Annual Security Conference*. Las Vegas, NV.
21. Proctor, R. W., Tan, H. Z., Vu, K.-P. L., Gray, R., & Spence, C. (2005, July). Implications of compatibility and cuing effects for multimodal interfaces. *11<sup>th</sup> International Conference of Human Computer Interaction (HCI2005)*. Las Vegas, NV.

22. Vu, K.-P. L., Tai, B.-L., Bhargav, A., Schultz, E. E., & Proctor, R. W. (2004, September). Promoting Memorability and Security of Passwords Through Sentence Generation. *Human Factors and Ergonomics Society 48<sup>th</sup> Annual Meeting*. New Orleans, LA.
23. Proctor, R. W., & Vu, K.-P. L. (2004, February). Consistent stimulus-response mappings for dual tasks do not always yield better performance than inconsistent mappings. Conference on *Process-based and code-based interference in dual tasks*. Ohlstadt, Germany
24. Vu, K.-P. L., Bhargav, A., & Proctor, R. W. (2003, October). Imposing password restrictions for multiple accounts: Impact on generation and recall of passwords. *Human Factors and Ergonomics Society 47<sup>th</sup> Annual Meeting*. Denver, CO.
25. Proctor, R. W., & Vu, K.-P. L. (2003, June). Stimulus-response compatibility and aging: Implications for web design. Workshop on Web and Aging. *10<sup>th</sup> International Conference of Human Computer Interaction (HCI2003)*. Crete, Greece.
26. Proctor, R. W., & Vu, K.-P. L. (2002, August). Violations of the spatial compatibility principle: Theoretical and applied implications. *110<sup>th</sup> Annual APA Convention*. Chicago, IL.
27. Proctor, R. W., & Vu, K.-P. L. (2002, May). Altering spatial compatibility effects by mixing tasks with multiple S-R mappings. *ONR Workshop: Attention, Perception, and Data Visualization*. Fairfax, VA.
28. Vu, K.-P. L., & Proctor, R. W. (2002, April). Two-dimensional stimulus-response compatibility effects: Manipulating the salience of stimulus and response sets. *2002 Convention of the Western Psychological Association*. Irvine, CA.
29. Proctor, R. W., Lien, M.-C., Vu, K.-P. L., Schultz, E. E., & Salvendy, G. (2001, November). Influence of restrictions on password generation and recall. *31<sup>st</sup> Annual Meeting of the Society for Computers in Psychology*. Orlando, FL.
30. Vu, K.-P. L., & Proctor, R. W. (2001, August). Stimulus-response compatibility in interface design. *9<sup>th</sup> International Conference of Human Computer Interaction (HCI2001)*. New Orleans, LA.
31. Vu, K.-P. L., & Proctor, R. W. (2000, November). The role of salience in two-dimensional spatial compatibility. *Psychonomic Society 41<sup>th</sup> Annual Meeting*. New Orleans, LA.
32. Proctor, R. W., & Vu, K.-P. L. (2000, July). Eliminating, magnifying, and reversing spatial compatibility effects with mixed location-relevant and irrelevant trials. *Attention and Performance XIX*. Kloster Irsee, Germany.
33. Vu, K.-P. L., Proctor, R. W., & Pick, D. F. (1999, June). Vertical versus horizontal compatibility: left-right prevalence. *North American Society for Psychology of Sport and Physical Activity 1999 Conference*. Clearwater Beach, FL.
34. Vu, K.-P. L., & Strybel, T. Z. (1999, May). Effects of auditory cue errors on auditory spatial facilitation. *1999 Convention of the Western Psychological Association*. Irvine, CA.

**Poster Presentations:**

1. Vu, K.-P. L., Proctor, R. W., Ngo, T. K., & Minakata, K. (2008, November). Shared verbospatial and visuospatial representations for bilinguals' primary language. *49<sup>th</sup> Annual Meeting of the Psychonomics Society*. Chicago, IL.
2. Vu, K.-P. L. & Proctor, R. W. (2007, November). Dual-task performance with consistent and inconsistent stimulus-response mappings. *48<sup>th</sup> Annual Meeting of the Psychonomics Society*. Long Beach, CA.
3. Strybel, T. Z., Vu, K.-P. L., Battiste, V., & Johnson, W. W. (2007, November). Conducting distributed simulations over the Internet. *37<sup>th</sup> Annual Meeting of the Society for Computers in Psychology*. Long Beach, CA.
4. Proctor, R. W., Ali, M. A., & Vu, K.-P. L. (2006, July). Information requested by Web sites and users' comprehension of privacy policies. *The 2006 Symposium on Usable Privacy and Security*. Pittsburg, PA.
5. Proctor, R. W., Ali, M. A., & Vu, K.-P. L. (2006, March). Examining the usability of Web privacy policies. *7<sup>th</sup> Annual CERIAS Information Security Symposium*. West Lafayette, IN.
6. Vu, K.-P. L., & Proctor, R. W. (2005, November). The role of perceptual emergent features in dual-task performance. *Psychonomic Society 46<sup>th</sup> Annual Meeting*. Toronto, Canada.
7. Pellicano, A., Vu, K.-P. L., Proctor, R. W., Nicoletti, R., & Umiltà, C. (2005, September). Simon-like effect based on stimulus-response short-term memory associations. *XIV Conference of the European Society for Cognitive Psychology*. Leiden, The Netherlands.
8. Vu, K.-P. L., & Proctor, R. W. (2005, May). Age differences in response selection for pure and mixed tasks. *2005 APS Annual Convention*. Los Angeles, CA.
9. Ali, M. A., Vu, K.-P. L., & Proctor, R. W. (2005, March). An analysis of privacy and security information provided and elicited by different types of Web sites. *6<sup>th</sup> Annual CERIAS Research Symposium*. West Lafayette, IN.
10. Vu, K.-P. L., Proctor, R. W., & Pick, D. F. (2004, November). Response preparation in younger and older adults. *Psychonomic Society 45<sup>th</sup> Annual Meeting*. Minneapolis, MN.
11. Pellicano, A., Vu, K.-P. L., Proctor, R. W., Nicoletti, R., & Umiltà, C. (2004, May). Simon effect as a function of stimulus-stimulus short-term memory links. *16<sup>th</sup> Annual Convention of the American Psychological Society*. Chicago, IL.
12. Anderson, R. E., Vu, K.-P. L., Pick, D. F., & Proctor, R. W. (2004, April 5). Effects of irrelevant location information on performance of older and younger adults. *Symposium on Early Origins of Adult Health: Biological Processes*. West Lafayette, IN.
13. Tai, B.-L., Vu, K.-P. L., Bhargav, A., Schultz, E. E., & Proctor, R. W. (2004, March). Promoting memorability and security of passwords through sentence generation. *5<sup>th</sup> Annual CERIAS Research Symposium*, West Lafayette, IN.
14. Bhargav, A., Vu, K.-P. L., & Proctor, R. W. (2003, April). Imposing password restrictions for multiple accounts: Impact on generation and recall of passwords. *4<sup>th</sup> Annual CERIAS Research Symposium*, West Lafayette, IN.

15. Proctor, R. W., Vu, K.-P. L., & Nicoletti, R. (2002, November). A prevalence effect for two-dimensional stimulus-response sets when location is irrelevant. *43<sup>rd</sup> Annual Meeting of the Psychonomic Society*, Kansas City, MO.
16. Vu, K.-P. L., & Proctor, R. W. (2001, November). Elimination and enhancement of spatial compatibility effects with mixed mappings. *Psychonomic Society 42<sup>nd</sup> Annual Meeting*. Orlando, FL.
17. Vu, K.-P. L., & Proctor, R. W. (2001, June). The prevalence effect in two-dimensional compatibility is a function of the relative salience of the dimensions. *13<sup>th</sup> Annual Convention of the American Psychological Society*. Toronto, Ontario.
18. Strybel, T. Z., Vu, K.-P. L., & Castagna-Osorio, J. (2000, July). Auditory spatial cueing of visual search in the presence of noise. *Human Factors and Ergonomics Society/International Ergonomics Association 2000 Conference*. San Diego, CA.
19. Blaga, O. M., Vu, K.-P. L., & Strybel, T. Z. (1999, November). Auditory apparent motion between the components of complex tone sequences. *Psychonomic Society 40<sup>th</sup> Annual Meeting*. Los Angeles, CA.
20. Vu, K.-P. L., Hanley, G. L., Strybel, T. Z., & Boucher, J. M. (1999, May). Assessing expertise for usability testing. *1999 Convention of the Western Psychological Association*. Irvine, CA.

#### WORK FEATURED IN NEWSLETTERS AND THE MEDIA

1. Strokes, T. (2008). Multiple passwords adding to our stress load. *TimesDaily*. April 13, 2008.
2. Diamantides, N. (2007). CSULB study to test feasibility of airports handling three times as many flights. *Long Beach Business Journal*. March 13-26, 2007.
3. Schroeder, S. (2007). \$3 million NASA award given to study air traffic. *Inside CSULB*. February 2007.
4. Anderson, J. (2006). Remembering – An old new weapon in the fight against hackers. *ErgonomicsReport*. Available online at ErgonomicsReport.com. May 9, 2006.
5. Manly, R. (2006). Password security is her game. *Inside CSULB*. May 2006. Available online: <http://www.csulb.edu/misc/inside/archives/v58n5/imgs/v58n5.pdf>.

#### GRANTS AND CONTRACTS:

##### Current Support

NASA: NGATS ATM: Airspace Project Strybel (PI)  
 Title: METRICS FOR OPERATOR SITUATION AWARENESS, WORKLOAD, AND PERFORMANCE IN AUTOMATED SEPARATION ASSURANCE  
 Role: Co-Investigator  
 Amount of Total Award: \$3,000,000  
 Period of Award: 10/01/06-9/30/10

THE BOEING COMPANY Strybel (PI)  
 Title: JOINT RESEARCH AND DEVELOPMENT AWARD  
 Role: Co-Investigator  
 Amount of Total Award: \$163,000  
 Period of Award: 02/25/04-12/31/09

CSU OFFICE OF THE CHANCELLOR: Vu (PI)  
Academic Technology Services (ATS) Digital Marketplace Initiative  
Title: PILOT AND FORMAL USER TESTING OF THE CSU OFFICE OF THE  
CHANCELLOR'S DIGITAL MARKETPLACE WEB SITE  
Role: Principal Investigator  
Amount of Total Award: \$20,000  
Period of Award: 10/08-4/09

**Completed Support**

THE BOEING COMPANY Vu (PI)  
Title: CUDA-BOEING FUTURE COCKPIT INTERFACE DESIGN PROJECT  
Role: Principal Investigator  
Amount of Total Award: \$10,000  
Period of Award: 10/18/04-12/18/08

NSF CyberTrust Grant Bertino & Anton (PIs)  
Title: COLLABORATIVE RESEARCH: A COMPREHENSIVE POLICY- DRIVE FRAMEWORK  
FOR ONLINE PRIVACY PROTECTION: INTEGRATING IT, HUMAN, LEGAL AND  
ECONOMIC PERSPECTIVES.  
Role: Senior Personnel/Consultant (Involved in the development of the proposal)  
Amount of Total Award: \$666,000  
Period of Award: 9/15/04-8/31/07

NIA: 1 R03 AG21741-01 Proctor (PI)  
Title: RESPONSE SELECTION IN PERCEPTUAL-MOTOR TASKS AS A FUNCTION OF AGE  
Role: Senior Personnel (Involved in the development of the proposal)  
Amount of Total Award: \$75,000  
Period of Award: 10/01/02-08/31/04

**SYNERGISTIC ACTIVITIES**

**Associate Director:**

June 2005-present: **Center for the Study of Advanced Aeronautic Technologies**, CSU Long Beach  
December 2005-present: **Center for Usability in Design and Assessment**, CSU Long Beach  
Fall 2005: **Career Opportunities in Research**, CSU Long Beach

**Editorial Board Member:** *American Journal of Psychology*  
*International Journal of Human-Computer Interaction*

**Ad Hoc Reviewer:** *Behavior Research Methods*  
*European Journal of Cognitive Psychology*  
*Experimental Psychology*  
*Human Factors*  
*Journal of Experimental Psychology: Applied*  
*Journal of Experimental Psychology: General*  
*Journal of Experimental Psychology: Human Perception and Performance*  
*Journal of Experimental Psychology: Learning, Memory, and Cognition*  
*Journal of Neuroscience Methods*  
*Memory & Cognition*  
*Quarterly Journal of Experimental Psychology*

*Perception*  
*Perception & Psychophysics*  
*Psychological Research*  
*Psychological Science*  
*Psychonomic Bulletin & Review*

**Grant Reviewer:** *National Science Foundation*

**Professional Societies:** American Psychological Association: 2001-present  
American Psychological Society: 2001-present  
Human Factors and Ergonomics Society: 2000-present  
Psychonomic Society: 2005-present  
Society for Computers in Psychology: 2002-present  
Steering Committee Member: 2007-2010  
Western Psychological Association: 1999, 2001

**Conference Organizer:**

*Society for Computer in Psychology 38<sup>th</sup> Annual Meeting* (Program Chair). Chicago, IL. November, 2008.  
*Society for Computer in Psychology 37<sup>th</sup> Annual Meeting* (Assistant Program Chair). Long Beach, CA. November 15, 2007.  
*The Second Annual California State University Regional Human Factors Conference* (Faculty Advisor for HFES-CSULB Student Chapter). Long Beach, CA. February 24, 2007.  
*The Epistemology of Natural and Artificial Systems* (assisted C. Wallis, with D. Chiappe and W. Wright). Long Beach, CA. February 23-25, 2006.  
*The First Annual California State University Regional Human Factors Conference* (Faculty Advisor for HFES-CSULB Student Chapter). Long Beach, CA. February 18, 2006.  
*Hoosier Mental Life 2003 Conference* (co-organizer with K. Sung and Z. Pizlo). West Lafayette, IN. March 28-29, 2003.  
*Society for Computer in Psychology 32<sup>nd</sup> Annual Meeting* (Assistant Program Chair). Kansas City, MO. November 21, 2002.

**Conference Program Boards:**

**Cognitive Ergonomics Program Board:** *2<sup>nd</sup> International Conference on Applied Ergonomics*. To be held in Las Vegas, Nevada, July 2008.

**International Program Board:** *International Conference on Human Aspects of Information Security*. Plymouth, United Kingdom. June, 2007.

**Human Interface and Management of Information Program Board:**

*13th International Conference on Human-Computer Interaction*. San Diego, California, July, 2009.

*12th International Conference on Human-Computer Interaction*. Beijing, China, July, 2007.

*11th International Conference on Human-Computer Interaction*. Las Vegas, Nevada, July, 2005.

**White Paper Co-Organizer** (with R. W. Proctor and G. Salvendy): Full-day white paper session on *Content Preparation for the Web* at the International Human Computer Interaction 2001 Meeting. New Orleans, LA. August 5-10, 2001. Funded by Siemens AG.

Contributor to the **APA Dictionary of Psychology (2007)**: Attention and Psychophysics terms

**President of Purdue University Student Chapter of the Human Factors and Ergonomics Society:** June 1999 – May 2002

**UNIVERSITY SERVICE AND COMMITTEE WORK (since appointment at CSULB)**

2008-2009: Chair, Applied Experimental Psychology Search Committee  
2008-2009: Chair, MS Human Factors Program Committee  
2007-present: Coordinator, PSY 100 Subject Pool  
2005-present: Member, MS Human Factors Program Committee  
2005-present: Member, Web Committee  
2005-present: Member, Tomy Jung Scholarship Committee  
2005-present: Member, Center for Cognitive Sciences  
Spring 2008: Course Coordinator, PSY 332: Cognition  
2007-2008: Member, Human Ethics Committee  
2007-2008: Member, Cognitive Neuroscience Search Committee  
2006-2008: Member, College of Liberal Arts Technology Committee  
2006-2007: Member, Psychology Department Chair Search Committee  
2006-2007: Chair, MS Human Factors Program Committee  
2005-2007: Advisor, Human Factors and Ergonomics Society Student Organization  
2005-2006: Advisor, Psi Chi Student Organization  
2005-2006: Member, Human Ethics Committee