

Khai N. Truong

Contact information University of Toronto
Department of Computer Science
Toronto, Ontario, Canada M5S 3G4

E-mail: khai@cs.toronto.edu
Web: <http://khaitruong.com>
Phone: +1 (416) 978-4761

Current academic position Assistant Professor (1/2006 – present)
University of Toronto, Department of Computer Science

Educational background Ph.D. in Computer Science, Georgia Institute of Technology (2005)
B.S. in Computer Engineering with Highest Honors, Georgia Institute of Technology (1997)

Areas of research Human-Computer Interaction, Ubiquitous Computing

Selected publications (partial list, since 1/2006-present) **Books, Book Chapters, Edited Volumes** (Since 1/2006 - present)

- [B.4] Hayes, G.R., Truong, K.N. Selective Archiving: A Model for Privacy Sensitive Capture and Access Technologies. (Accepted; To appear in) Protecting Privacy in Video Surveillance. Andrew Senior (Ed.) Springer, June 2009. ISBN: 978-1-84882-300-6
- [B.3] Patel, S.N., Summet, J., Truong, K.N. BlindSpot: The Design and Application Capture-Resistant Environments. (Accepted; To appear in) Protecting Privacy in Video Surveillance. Andrew Senior (Ed.) Springer, June 2009. ISBN: 978-1-84882-300-6
- [B.2] Patel, S.N., Truong, K.N., Hayes, G.R., Iachello, G., Kientz, J.A., Abowd, G.D. The Personal Audio Loop: A Ubiquitous Audio-Based Memory Aid. In the Handbook of User Interface Design and Evaluation for Mobile Technology. Joanna Lumsden (Ed.) IGI Global, 2008, 1240 pages. ISBN: 978-1-59904-871-0
- [B.1] The Proceedings of the 5th International Conference on Pervasive Computing. Lecture Notes in Computer Science, Volume 4480. LaMarca, A., Langheinrich, M., Truong, K.N. (Eds.) Springer, 2007, 369 pages. ISBN: 978-3-540-72036-2

Journals & Scientific Magazines (Peer reviewed; Since 1/2006 - present)

- [J.5] Yatani, K., Truong, K.N. Evaluating the Effect of Mobility on Stylus-Based Text Entry Methods for Handheld Devices. (Accepted; To appear in) Pervasive and Mobile Computing Journal. 2009. doi:10.1016/j.pmcj.2009.04.002
- [J.4] Truong, K.N., Hayes, G.R. Ubiquitous Computing for Capture and Access. In Foundations and Trends in Human-Computer Interaction, Volume 2(2), pp. 95-171, 2009. doi: 10.1561/1100000014
- [J.3] Huang, E.M., Yatani, K., Truong, K.N., Kientz, J.A., Patel, S.N. Understanding the Situated Sustainability of Mobile Phones: The Influence of Local Constraints and Practices on Transferability. In IEEE Pervasive Computing, Volume 8(1), pp. 46-53, January-March 2009. doi:10.1109/MPRV.2009.19
- [J.2] Dearman, D., Inkpen, K.M., Truong, K.N. Mobile Map Interaction During a Rendezvous: Exploring the Implications for Automation. In Personal and Ubiquitous Computing. March 2008. doi:10.1007/s00779-008-0195-2
- [J.1] Hayes, G.R., Poole, E.S., Iachello, G., Patel, S.N., Grimes, A., Abowd, G.D., Truong, K.N. Physical, Social, and Experiential Knowledge of Privacy and Security in a Pervasive Computing Environment. In IEEE Pervasive Computing, Volume 6(4), pp. 56-63, October-December 2007.

Conference Papers & Notes (Peer reviewed & appeared in conference's *main* proceedings; since 1/2006 - present)

- [C.14] Yatani, K., Chung, E., Jensen, C., Truong, K.N. Understanding How and Why Open Source Software Contributors Do and Do not Use Diagrams. In the Proceedings of CHI 2009: The ACM Conference on Human Factors in Computing Systems (April 4-9, 2009, Boston, MA) 2009, pp. 995-1004. [24.5% acceptance rate]
- [C.13] Wu, M., Ranjan, A., Truong, K.N. An Exploration of Social Requirements for Exercise Group Formation. In the Proceedings of CHI 2009: The ACM Conference on Human Factors in Computing Systems (April 4-9, 2009, Boston, MA) 2009, pp. 79-82. [24.5% acceptance rate]
- [C.12] Sellen, K., Massimi, M., Lottridge, D., Biddle, S., Truong, K.N. The People-Prototype Problem: Understanding the Interaction between Prototype Format and User Group. In the Proceedings of CHI 2009: The ACM Conference on Human Factors in Computing Systems (April 4-9, 2009, Boston, MA) 2009, pp. 635-638. [24.5% acceptance rate]
- [C.11] Dearman, D., Kellar, M., Truong, K.N. An Examination of Daily Information Needs and Sharing Opportunities. In the Proceedings of CSCW 2008: The ACM Conference on Computer Supported Cooperative Work (November 8-12, San Diego, CA), 2008, pp. 679-688. [23% acceptance rate]
- [C.10] Huang, E.M., Truong, K.N. Breaking the Disposable Technology Paradigm: Opportunities for Sustainable Interaction Design for Mobile Phones. In the Proceedings of CHI 2008: The ACM Conference on Human Factors in Computing Systems (April 5-10, 2008, Florence, Italy) 2008, pp. 323-332. [22% acceptance rate, *Best of CHI Paper Nomination*]
- [C.9] Hayes, G.R., Gardere, L., Abowd, G.D., Truong, K.N. CareLog: A Selective Archiving Tool for Behavior Management in Schools. In the Proceedings of CHI 2008: The ACM Conference on Human Factors in Computing Systems (April 5-10, 2008, Florence, Italy) 2008, pp. 685-694. [22% acceptance rate]
- [C.8] Cheng, K.G., Ernesto, F., Truong, K.N. Participant and Interviewer Attitudes toward Handheld Computers in the Context of HVI/AIDS Programs in Sub-Saharan Africa. In the Proceedings of CHI 2008: The ACM Conference on Human Factors in Computing Systems (April 5-10, 2008, Florence, Italy) 2008, pp. 763-766. [18% acceptance rate, *Best of CHI Note Award*]

- [C.7] Dearman, D., Varshavsky, A., de Lara, E., Truong, K.N. An Exploration of Location Error Estimation. In the Proceedings of UBIComp 2007: The 9th International Conference on Ubiquitous Computing (September 16-19, 2007, Innsbruck, Austria), 2007, pp.181-198. [19% acceptance rate]
- [C.6] Yatani, K., Truong, K.N. An Evaluation of Stylus-Based Text Entry Methods on Handheld Devices in Stationary & Mobile Settings. In the Proceedings of MobileHCI 2007: The 9th International Conference on Human-Computer Interaction with Mobile Devices and Services (September 11-14, 2007, Singapore), 2007, pp. 145-152. [22% acceptance rate]
- [C.5] Dearman, D., Inkpen, K.M., Truong, K.N. Target Selection on Mobile Devices using Display Segmentation. In the Proceedings of MobileHCI 2007: The 9th International Conference on Human-Computer Interaction with Mobile Devices and Services (September 11-14, 2007, Singapore) 2007, pp. 207-210. [22% acceptance rate]
- [C.4] Bila, N., Ronda, T., Mohamed, I., Truong, K.N., de Lara, E. PageTailor: On-Device End-User Customization for the Mobile Web. In the Proceedings of MobiSys 2007: The 5th International Conference on Mobile Systems, Applications, and Services (June 11-14, 2007, San Juan, Puerto Rico), 2007, pp.16-29. [21% acceptance rate]
- [C.3] Patel, S.N., Truong, K.N., Abowd, G.D. Powerline Positioning: A Practical sub-Room-Level Indoor Location System for Domestic Use. In the Proceedings of UBIComp 2006: The 8th International Conference on Ubiquitous Computing (September 17-21, 2006, Irvine, California, USA), 2006, pp. 441-458. [13% acceptance rate]
- [C.2] Truong, K.N., Hayes, G.R., Abowd, G.D. Storyboarding: An Empirical Determination of Best Practices and Effective Guidelines. In the Proceedings of DIS 2006: The ACM Conference on Designing Interactive Systems (June 26-28, 2006, State College, Pennsylvania), 2006, pp. 12-21. [25% acceptance rate]
- [C.1] Iachello, G., Truong, K.N., Abowd, G.D., Stevens, M.M., Hayes, G.R. Prototyping and sampling experience to evaluate ubiquitous computing privacy in the real world. In the Proceedings of CHI 2006: The ACM Conference on Human Factors in Computing Systems (April 22-27, 2006, Montréal, Québec, Canada), 2006, pp. 1009-1018. [23% acceptance rate, *Best of CHI Paper Nomination*]

Invited Magazine Panels (Since 1/2006 - present)

- [IMP.1] Huang, E.M., Truong, K.N. Situated Sustainability for Mobile Phones. In ACM Interactions, Volume 15(2): pp. 16-19, March 2008.

Invited Lectures (Since 1/2006 - present)

- [IL.3] Truong, K.N. Beyond Google. Invited talk at MIT CSAIL's HCI Seminar (October 17, Cambridge, MA), 2008.
- [IL.2] Truong, K.N., Hayes, G.R. Privacy Considerations of Ubicomp Memory Aids. Invited talk at Microsoft Research Cambridge (July 10, Cambridge, UK), 2008.
- [IL.1] Truong, K.N. Designing & Evaluating a Short-Term Audio-Based Reminder Application. Invited talk at TORCHI: Toronto Region's special interest group on Computer-Human Interaction (September 28, Toronto, ON), 2006.

Conference & Workshop Presentations without Proceedings (Since 1/2006 - present)

- [CnP.2] Cheng, K.G., Ernesto, F., Ovalle-Bahamón, R., Truong, K.N. Sociocultural Barriers to Acceptance of Handheld Computers for HIV/AIDS Data Collection in Sub-Saharan Africa. (Abstract accepted; To be presented at) The 2009 AMIA (American Medical Informatics Association) Spring Congress (May 28-30, Orlando, FL), 2009.
- [CnP.1] Huang, E.M., Truong, K.N. Understanding the paradigm of disposable technology: What happens to old mobile phones? Presented at the Workshop on Sustainability: Technologies for Green Values at UBIComp 2007 (September 16-19, Innsbruck, Austria), 2007.

Students supervised **Current students**

- 9/2006 – David Dearman, C.S. Ph.D. student
Work has resulted in publications [C.5], [C.7], [C.11], [J.2]
- 9/2006 – Koji Yatani, C.S. Ph.D. student
Work has resulted in publications [C.6], [C.14], [J.3], [J.5]
- 9/2008 – Andrew Trusty, C.S. M.Sc. student
- 2/2009 – Leila Reiza, C.S. M.Sc. student visiting from RWTH Aachen
- 6/2009 – Alyssa Rosenzweig, C.S. M.Sc. student
- 9/2009 – Frank Li, C.S. M.Sc. student

Graduated students

- 2/2009 Justin Ho, C.S. M.Sc. student, now at BumpTop (Bump Technologies Inc.; <http://bumptop.com>)
- 4/2009 Frank Li, Eng. Sci. undergraduate student, now M.Sc. student at U. Toronto
- 4/2009 Michael Novati, Eng. Sci. undergraduate student, now Ph.D. student at U. Washington

Selected service activities
(partial list, since 1/2006-present)

- Steering committee: Pervasive conference series (2007 – present)
- Program committee: Ubicomp 2006, 2007, 2008, 2009; Pervasive 2006, 2008; MobiSys 2009
- Reviewer: CHI, UIST, CSCW ISWC, Pervasive, TOCHI, TOIS, JCSW, Machine Vision and Applications Journal, Computer & Graphics, Personal & Ubiquitous Computing, Software: Practice & Experience, IEEE Pervasive Computing