

BIOGRAPHICAL INFORMATION

Personal Data

University Address

Department of Computer Science
University of Toronto
Toronto, Ontario M5S 3G4

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+1 (416) 978-4761

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E-mail address: khai@cs.toronto.edu

Citizenship: USA, Naturalized

Degrees Awarded

Ph.D. in Computer Science, Georgia Institute of Technology, 2005

Thesis title: *INCA: An Infrastructure for Capture & Access*

Supporting the Generation, Preservation & Use of Memories from Everyday Life

Advisor: Gregory D. Abowd

B.S. in Computer Engineering (with Highest Honors), Georgia Institute of Technology, 1997

Employment History

- | | |
|--|---|
| 1/2006 – present | <i>Assistant Professor</i>
University of Toronto
Department of Computer Science |
| 8/2004 – 12/2004 | <i>Instructor</i>
Georgia Institute of Technology
College of Computing |
| 5/2004 – 7/2004,
8/2003 – 12/2003,
8/2002 – 12/2002,
8/2001 – 12/2001,
1/2000 – 4/2000 | <i>Graduate Teaching Assistant</i>
Georgia Institute of Technology
College of Computing |
| 1/2002 – 3/2002 | <i>Visiting Researcher</i>
University of São Paulo, São Carlos, Brazil
Host: Maria da Graça Campos Pimentel |
| 5/2001 – 8/2001 | <i>Research Intern</i>
Fuji-Xerox Palo Alto Laboratory (FXPAL)
Host: Patrick Chiu
Manager: Lynn Wilcox |
| 5/2000 – 8/2000 | <i>Research Intern</i>
IBM T. J. Watson Research Center
Host: Tom V. Fraunhofer
Manager: Shahrokh Daijavad |

- 1/1998 – 4/1998 *Consultant*
Manhattan Associates
- 1/1996 – 3/1997 *Undergraduate Teaching Assistant*
Georgia Institute of Technology
College of Computing

ACADEMIC HISTORY

Research Endeavors

The focus of my research lies in Human-Computer Interaction (HCI) and Ubiquitous Computing (UbiComp). In general, I am interested in the design, implementation and evaluation of novel, off-the-desktop, interactive computing systems that I believe will be commonplace in five to ten years and appropriate techniques for interacting with them. My research approach involves an examination of the usability and social issues surrounding the proliferation and adoption of mobile and ubiquitous computing applications. This step allows me to explore important design issues related to the development and deployment of pervasive technologies in authentic settings. Currently, I am interested in 1) the development and evaluation of assistive technologies and 2) how to design ubiquitous computing systems to encourage or support the user in performing environmentally friendly actions.

Patents

- [P.4] Patel, S.N., Robertson, T., Truong, K.N., Reynolds, M.S., and Abowd, G.D. Sub-room-level Indoor Location System using Power Line Positioning. US Patent Pending (60/817,225). 2007.
- [P.3] Patel, S.N., Truong, K.N., Abowd, G.D., and Summet, J.W. Systems and Methods for Disabling Recording Features of Cameras. US Patent applied for (062012-1090/3588PR). 2005.
- [P.2] Hayes, G.R., Truong, K.N., Gardere, L., and Abowd, G.D. System and Method for Archiving of Continuous Capture Buffers. US Patent applied for (820701-1265/3235PR). 2005.
- [P.1] Chiu, P. and Truong, K.N. Methods for Interactive Browsing and Visualization of Documents in Real Space and Time. US Patent 7,003,737 issued February 21, 2006.

SCHOLARLY & PROFESSIONAL WORK

Refereed Publications

Books, Book Chapters & Edited Proceedings

- [B.4] Hayes, G.R., Truong, K.N. Selective Archiving: A Model for Privacy Sensitive Capture and Access Technologies. 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. 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)

- [J.8] Massimi, M., Truong, K.N., Dearman, D., Hayes, G.R. Understanding Recording Technologies in Everyday Life. (Accepted; To appear in) IEEE Pervasive Computing. Roy Want (Ed. in Chief) IEEE Press, 2009.
- [J.7] Yatani, K., Truong, K.N. Evaluating the Effect of Mobility on Stylus-Based Text Entry Methods for Handheld Devices. In the Pervasive and Mobile Computing Journal. 2009. doi:10.1016/j.pmcj.2009.04.002
- [J.6] 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.5] 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.4] 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.3] 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.
- [J.2] Abowd, G.D., Hayes, G.R., Iachello, G., Kientz, J.A., Patel, S.N., Stevens, M.M., Truong, K.N. Prototypes and Paratypes: Mixed Methods for Designing Mobile and Ubiquitous Computing Applications. In IEEE Pervasive Computing, Volume 4(4), pp. 67-73, October-December 2005.
- [J.1] Stevens, M.M., Abowd, G.D., Truong, K.N., Vollmer, F. Getting into the Living Memory Box: Family Archives & Holistic Design. In Personal and Ubiquitous Computing, Volume 7(3-4), pp. 210-216, July 2003.

Conference Papers & Notes (Peer reviewed & appeared in conference's *main* proceedings)

- [C.29] Yatani, K., Truong, K.N. SemFeel: A User Interface with Semantic Tactile Feedback for Mobile Touch-screen Devices. (Accepted; To appear) In the Proceedings of UIST 2009: The 22nd Annual ACM Symposium on User Interface Software and Technology (October 4-7, Victoria, Canada), 2009.
- [C.28] Li, F., Dearman, D., Truong, K.N. Virtual Shelves: Interactions with orientation aware devices. (Accepted; To appear) In the Proceedings of UIST 2009: The 22nd Annual ACM Symposium on User Interface Software and Technology (October 4-7, Victoria, Canada), 2009.
- [C.27] Nguyen, D.H., Marcu, G., Hayes, G.R., Truong, K.N., Scott, J., Langheinrich, M., Roduner, C. Encountering SenseCam: Personal Recording Technologies in Everyday Life. (Accepted; To appear) In the Proceedings of UBIComp 2009: The 11th International Conference on Ubiquitous Computing (September 30-October 3, 2009, Orlando, FL), 2009.
- [C.26] Dearman, D., Truong, K.N. BlueTone: A Framework for Interacting with Public Displays Using Dual-Tone Multi-Frequency through Bluetooth. (Accepted; To appear) In the Proceedings of UBIComp 2009: The 11th International Conference on Ubiquitous Computing (September 30-October 3, 2009, Orlando, FL), 2009.
- [C.25] 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.24] 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.23] 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.22] 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.21] 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.20] 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.19] 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.18] 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.17] 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.16] 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.15] 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.14] 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.13] 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.12] 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*]
- [C.11] Truong, K.N., Patel, S.N., Summet, J., Abowd, G.D. Preventing Camera Recording by Designing a Capture-Resistant Environment. In the Proceedings of UBIComp 2005: The 7th International Conference on Ubiquitous Computing (September 11-14, Tokyo, Japan), 2005, pp. 73-86. [9.7% acceptance rate]

- [C.10] Truong, K.N., Huang, E.M., Abowd, G.D. CAMP: A Magnetic Poetry Interface for End-User Programming of Capture Applications for the Home. In the Proceedings of UBICOMP 2004: The 6th International Conference on Ubiquitous Computing (September 7-10, Nottingham, England), 2004, pp. 143-160. [17.9% acceptance rate]
- [C.9] Hayes, G.R., Kientz, J.A., Truong, K.N., White, D.R., Abowd, G.D., Pering, T. Designing Capture Applications to Support the Education of Children with Autism. In the Proceedings of UBICOMP 2004: The 6th International Conference on Ubiquitous Computing (September 7-10, Nottingham, England), 2004, pp. 161-178. [17.9% acceptance rate]
- [C.8] Hayes, G.R., Patel, S.N., Truong, K.N., Iachello, G., Kientz, J.A., Farmer, R., Abowd, G.D. The Personal Audio Loop: Designing a Ubiquitous Audio-Based Memory Aid. In the Proceedings of Mobile HCI 2004: The 6th International Conference on Human Computer Interaction with Mobile Devices and Services (September 13-16, Glasgow, Scotland), 2004, pp. 168-179. [31.6% acceptance rate]
- [C.7] Truong, K.N., Abowd, G.D. INCA: A Software Infrastructure to Facilitate the Construction and Evolution of Ubiquitous Capture & Access Applications. In the Proceedings of Pervasive 2004: The 2nd International Conference on Pervasive Computing (April 21-23, Vienna, Austria), 2004, pp. 140-157. [12.7% acceptance rate]
- [C.6] Macedo, A.A., Truong, K.N., Camacho, J.A., Pimentel, M.G.C. Automatically Sharing Web Experiences through a Hyperdocument Recommender System. In the Proceedings of ACM HyperText'03: The 14th Conference on Hypertext and Hypermedia (August 26-30, Nottingham, UK), 2003, pp. 48-56. [25% acceptance rate]
- [C.5] Stevens, M.M., Abowd, G.D., Truong, K.N., Vollmer, F. Getting into the Living Memory Box: Family Archives & Holistic Design. In the Proceedings of 1AD: The First International Conference on Appliance Design (May 6-8, Bristol, UK), 2003.
- [C.4] Neto, R.B. Izeki, C., Pimentel, M., Fortes, R., Truong, K. An Open Linking Service Supporting the Authoring of Web Documents. In the Proceedings of DocEng 2002: The 2nd ACM Symposium on Document Engineering (November 8-9, Washington, D.C.), 2002, pp. 66-73.
- [C.3] Baldochi, L.A., Pimentel, M.G.C., Cattelan, R.G., Truong, K.N. Automatic Generation of Capture and Access Applications. In the Proceedings of SBMIDIA 2002: The 8th Brazilian Symposium on Multimedia and Hypermedia Systems (October 7-10, Fortaleza, Brazil), 2002, pp. 100-115.
- [C.2] Truong, K.N., Abowd, G.D., Brotherton, J.A. Who, What, When, Where, How: Design Issues of Capture & Access Applications. In the Proceedings of UBICOMP 2001: The 3rd International Conference on Ubiquitous Computing (September 31-October 2, Atlanta, GA), 2001, pp. 209-224. [15.5% acceptance rate]
- [C.1] Truong, K.N., Abowd, G.D., Brotherton, J.A. Personalizing the Capture of Public Experiences. In the Proceedings of UIST 1999: The 12th Annual ACM Symposium on User Interface Software and Technology (November 7-10, Asheville, NC), 1999, pp. 121-130. [23.3% acceptance rate]

Extended Abstracts, Videos, Posters, and Demos (Peer reviewed & appeared in conference's *adjunct* proceedings)

- [c.9] Hayes, G.R., Truong, K.N., Abowd, G.D., Pering, T. Experience Buffers: A Socially Appropriate, Selective Archiving Tool for Evidence-Based Care. In the Extended Abstracts of CHI 2005: The ACM Conference on Human Factors in Computing Systems (April 2-9, 2005, Portland, OR), 2005, pp. 1435-1438. [25% acceptance rate]
- [c.8] Harvel, L.D., Newstetter, W., Truong, K., Abowd, G.D. Work in Progress – Supporting automatic capture in problem based learning environments. Presented at the 34th ASEE/IEEE Frontiers in Education Conference (October 20-23, 2004, Savannah, GA), 2004.
- [c.7] Truong, K.N., Richter, H., Hayes, G.R., Abowd, G.D. Devices for Sharing Thoughts and Affection at a Distance. In the Extended Abstracts of CHI 2004: The ACM Conference on Human Factors in Computing Systems (April 24-29, 2004, Vienna, Austria), 2004, pp. 1203-1206. [37% acceptance rate]

- [c.6] Truong, K.N., Huang, E.M., Stevens, M.M., Abowd, G.D. How Do Users Think about Ubiquitous Computing? In the Extended Abstracts of CHI 2004: The ACM Conference on Human Factors in Computing Systems (April 24-29, 2004, Vienna, Austria), 2004, pp. 1317-1320. [37% acceptance rate]
- [c.5] White, D.R., Camacho-Guerrero, J.A., Truong, K.N., Abowd, G.D., Morrier, M.J., Vekaria, P.C., Gromala, D. Mobile Capture and Access for Assessing Language and Social Development in Children with Autism. In the Extended Abstracts of UBICOMP 2003: The 5th International Conference on Ubiquitous Computing (October 12-15, 2003, Seattle, WA), 2003, pp. 137-140.
- [c.4] Nguyen, D.H., Truong, K.N. PHEmail: Designing a Privacy Honoring Email System. In the Extended Abstracts of CHI 2003: The ACM Conference on Human Factors in Computing Systems (April 5-10, Fort Lauderdale, FL), 2003, pp. 922-923. [38% acceptance rate]
- [c.3] Chiu, P., Truong, K.N. Interactive Space-Time Planes for Document Visualization. In the Compendium of InfoVis 2002: The IEEE Symposium on Information Visualization (October 28-29, Boston, MA), 2002, pp. 10-11.
- [c.2] Geyer, W., Daijavad, S., Frauenhofer, T., Richter, H., Truong, K.N., Fuchs, L. and Poltrock, S. Virtual Meeting Support in TeamSpace. Refereed Demonstration at the CSCW 2000: The ACM Conference on Computer Supported Cooperative Work (December 2-6, Philadelphia, PA), 2000.
- [c.1] Truong, K.N., Abowd, G.D. StuPad: Integrating Student Notes with Class Lectures. In the Extended Abstracts of CHI 1999: The ACM Conference on Human Factors in Computing Systems (May 15-20, Pittsburgh, PA), 1999, pp. 208-209. [29% acceptance rate]

Doctoral Consortia (Refereed)

- [DC.2] Truong, K.N. INCA: An Infrastructure to Support Novel Exploration of the Capture & Access Design Space. In the Extended Abstracts of UIST 2003: The 16th Annual ACM Symposium on User Interface Software and Technology (November 2-5, Vancouver, Canada), 2003, pp. 21-24.
- [DC.1] Truong, K.N. Enabling the Capture & Access of Everyday Activities. In the Extended Abstracts of UBICOMP 2002: The 4th International Conference on Ubiquitous Computing (September 31-October 2, Got berg, Sweden), 2002, pp. 65-66.

Non-Refereed Publications

Technical Reports

- [TR.5] Truong, K.N., Abowd, G.D., Pimentel, M.G.C. Vicariously Sharing Captured Web Experiences through an Automated Recommendation System. Georgia Institute of Technology Technical Report GIT-GVU-02-26. September 2002.
- [TR.4] Truong, K.N., Abowd, G.D. Enabling the Generation, Preservation & Use of Records and Memories of Everyday Life. Georgia Institute of Technology Technical Report GIT-GVU-02-02. January 2002.
- [TR.3] Truong, K.N., Abowd, G.D., Brotherton, J.A. Who, What, When, Where, How: Design Issues of Capture & Access Applications. Georgia Institute of Technology Technical Report GIT-GVU-01-02. January 2001. (Longer version of UBICOMP 2001 paper [C2])
- [TR.2] Richter, H., Brotherton J.A., Abowd, G.D., Truong, K.N. Supporting A Multi-Scale Timeline Slider for Stream Visualization and Control. Georgia Institute of Technology Technical Report GIT-GVU-99-30. July 1999.
- [TR.1] Brotherton, J.A., Abowd, G.D., Truong, K.N. Supporting Capture and Access Interfaces for Informal and Opportunistic Meetings. Georgia Institute of Technology Technical Report GIT-GVU-99-06. December 1998.

Invited Magazine Panels

- [IMP.3] Huang, E.M., Truong, K.N. Situated Sustainability for Mobile Phones. In ACM Interactions, Volume 15(2): pp. 16-19, March 2008.

- [IMP.2] Hayes, G.R., Truong, K.N. Autism, Environmental Buffers, and Wearable Servers. IEEE Pervasive Computing, Volume 4(2): pp. 14-17, 2005.
- [IMP.1] Matthews, T., Truong, K.N. PERVASIVE 2004: A Viennese Treat. IEEE Pervasive Computing, Volume 3(4): pp. 75-77, 2004.

Invited Lectures

- [IL.7] Truong, K.N. Beyond Google. Invited talk at MIT CSAIL's HCI Seminar (October 17, Cambridge, MA), 2008.
- [IL.6] Truong, K.N., Hayes, G.R. Privacy Considerations of Ubicomp Memory Aids. Invited talk at Microsoft Research Cambridge (July 10, Cambridge, UK), 2008.
- [IL.5] 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.
- [IL.4] Truong, K.N. The Potential Benefits, Social Implications and Necessary Design Compromises of Ubiquitous Capture Applications. Invited talk at the Workshop on Social Implications of Ubiquitous Computing at CHI 2005 (April 2-9, Portland, OR), 2005.
- [IL.3] Truong, K.N., Hayes, G.R. Capture & Access Infrastructure, Virtual Artifacts, and the Physical World. Invited talk at the Ball State University's Computer Science Department Colloquium Series. (April 4, Muncie, IN), 2003.
- [IL.2] Truong, K.N. Building Beyond the Desktop (Applications). Invited talk at the University of São Paulo's Computer Science Department Colloquium Series. (February 26, São Carlos, Brazil), 2002.
- [IL.1] Truong, K.N. INCA: Infrastructure for Capture and Access Applications. Invited talk at UC Berkeley's Group for User Interface Research. (June 28, Berkeley, CA), 2001.

Conference & Workshop Presentations without Proceedings

- [CnP.6] 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.5] 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.
- [CnP.4] Truong, K.N., Abowd, G.D. Ubiquitous Computing Programming Challenges. (Boaster) Presented at the Human Computer Interaction Consortium: HCIC 2004 (February 4-8, Fraser, CO), 2004.
- [CnP.3] Truong, K.N., Abowd, G.D. Bridging HCI & Systems Approaches to Building Automated Capture & Access Applications Through a Natural Language-Style Input Language. Presented at the Workshop on the Interaction of HCI and Systems Issues in UbiComp at UBIComp 2003 (October 12-15, Seattle, WA), 2003.
- [CnP.2] Hayes, G.R., Rea, A., Brunette, W., Abowd, G.D., Pierce, J.S., Truong, K.N., Pering, T. Lightweight Note-Taking Tools Using a Confederation of Mobile Capture and Access Devices. Presented at the Workshop on Multi-Device Interfaces for Ubiquitous Peripheral Interaction at UBIComp 2003 (October 12-15, Seattle, WA), 2003.
- [CnP.1] Truong, K.N. An Infrastructure Supporting Novel Exploration of the Capture & Access Design Space. Presented at the 2nd Annual IBM User Interface Technology Symposium: UITS 2003 (September 15-16, Yorktown, NY), 2003.

TEACHING

Undergraduate Courses Taught

- 1/2009 – 5/2009 *CSC318, The Design of Interactive Computational Media*
University of Toronto, Department of Computer Science
41 students
- 9/2008 – 12/2008 *CSC318, The Design of Interactive Computational Media*
University of Toronto, Department of Computer Science
38 students
- 9/2007 – 12/2007 *CSC318, The Design of Interactive Computational Media*
University of Toronto, Department of Computer Science
30 students
- 1/2007 – 5/2007 *CSC318, The Design of Interactive Computational Media*
University of Toronto, Department of Computer Science
25 students
- 8/2004 – 12/2004 *CS4750, Human-Computer Interface Design and Evaluation*
Georgia Institute of Technology, College of Computing
2 sections, 50 students

Graduate Courses Taught

- 9/2008 – 12/2008 *CSC2526, HCI Topics in Ubiquitous Computing*
University of Toronto, Department of Computer Science
11 registered students
- 9/2007 – 12/2007 *CSC2526, HCI Topics in Ubiquitous Computing*
University of Toronto, Department of Computer Science
9 registered students, 12-15 typically attend
- 9/2006 – 12/2006 *CSC2526, HCI Topics in Ubiquitous Computing*
University of Toronto, Department of Computer Science
9 registered students, 12-15 typically attend
- 1/2006 – 5/2006 *CSC2228, HCI Topics in Ubiquitous Computing*
University of Toronto, Department of Computer Science
8 registered students, 12-15 typically attend

This was a new course that I developed. It used an existing course number, CSC2228, at the time. After I applied for a new course number (January 2006), the course is listed now as CSC2526.

Students Supervised

Primary Supervision

- 9/2006 – David Dearman, CS Ph.D. student
Work has resulted in publications [C.16], [C.18], [C.22], [J.4]
- 9/2006 – Koji Yatani, CS Ph.D. student
Work has resulted in publications [C.17], [C.25], [J.5], [J*.7]
- 9/2008 – Andrew Trusty, CS Masters student
- 9/2009 – Alyssa Rosenzweig, CS Masters student

- 9/2009 – Frank Li, CS Masters student
Work has resulted in publications [C.22]
- 6/2009 – Nikola Banovic, CS undergraduate student
- 9/2009 – Jeremy Scott, Eng.Sc. undergraduate student

- 9/2007 – 2/2009 Justin Ho, CS Masters student
- 9/2008 – 4/2009 Michael Novati, Eng.Sc. undergraduate student
Now Ph.D. student at University of Washington
- 9/2008 – 4/2009 Frank Li, Eng.Sc. undergraduate student
Now graduate student at University of Toronto

SERVICE

Steering Committee

- 2007 – present PERVASIVE: The International Conference on Pervasive Computing

Papers Chair

- 2010 *Papers Co-Chair (with Paddy Nixon)*
UBICOMP: The International Conference on Ubiquitous Computing

General Chair

- 2007 *General Chair*
PERVASIVE: The International Conference on Pervasive Computing

Conference Program Committees

- 2009 UBICOMP: The International Conference on Ubiquitous Computing
- 2009 MobiSys: The ACM International Conference on Mobile Systems, Applications, and Services
- 2008 UBICOMP: The International Conference on Ubiquitous Computing
- 2008 PERVASIVE: The International Conference on Pervasive Computing
- 2008 Internet of Things
- 2007 UBICOMP: The International Conference on Ubiquitous Computing
- 2007 MOBIQUITOUS: The Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services
- 2007 Aml: The European Conference on Ambient Intelligence
- 2007 EuroSSC: The European Conference on Smart Sensing and Context
- 2007 RTCSA: The IEEE International Conference on Embedded and Real-Time Computing Systems and Applications
- 2007 INTERACT: The 11th IFIP TC13 International Conference on Human-Computer Interaction
- 2006 UBICOMP: The International Conference on Ubiquitous Computing

2006 PERVASIVE: The International Conference on Pervasive Computing

Conference Organization

Organizing Committee Member

2008 *Research Landscapes Co-Chair (with Piero Mussio)*
CHI: ACM Conference on Human Factors in Computing Systems

2008 *Workshops Co-Chair (with Arkady Zaslavsky)*
PERVASIVE: The International Conference on Pervasive Computing

2006 *Demonstrations Co-Chair (with Julian Bleecker)*
UBICOMP: The International Conference on Ubiquitous Computing

2005 *Workshops Co-Chair (with Yoshito Tobe)*
UBICOMP: The International Conference on Ubiquitous Computing

2005 *Publicity Co-Chair (with Rene Mayrhofer)*
PERVASIVE: The International Conference on Pervasive Computing

2003 *Webmaster*
UBICOMP: The International Conference on Ubiquitous Computing

2002 *Online Interactions Co-Chair (with Jason Brotherton)*
CSCW: The ACM Conference on Computer Supported Cooperative Work

2001 *Student Volunteers Chair*
UBICOMP: The International Conference on Ubiquitous Computing

2001 *Student Volunteers Co-Chair (with Jason Hong)*
UIST: The ACM Symposium on User Interface Software and Technology

Sessions Chair

2006 *Chair for Games as Platforms Session*
UBICOMP: The International Conference on Ubiquitous Computing

Doctoral Colloquium Panelist

2006 *Doctoral Colloquium Panelist*
UBICOMP: The International Conference on Ubiquitous Computing

2006 *Doctoral Colloquium Panelist*
PERVASIVE: The International Conference on Pervasive Computing

University Activities

University of Toronto

2008 - 2009 Undergraduate (Curriculum) Committee

2008 - 2009 (Graduate) Breadth Evaluations Committee

2008 - 2009 (Departmental) Website Committee

2008 - 2009 OGS (Ontario Graduate Scholarship) Panelist

2008 - 2009 Graduate Admissions Committee

2007 - 2008 Faculty Hiring Committee

2006 - 2007 Graduate Admissions Committee

Publication Review

Conferences

- UBICOMP: The International Conference on Ubiquitous Computing
- PERVASIVE: The International Conference on Pervasive Computing
- CSCW: The ACM Conference on Computer Supported Cooperative Work
- UIST: The ACM Symposium on User Interface Software and Technology
- CHI: ACM Conference on Human Factors in Computing Systems
- ISWC: The IEEE International Symposium on Wearable Computers
- MobiSys: The ACM International Conference on Mobile Systems, Applications, and Services
- WMCSA: The IEEE Workshop on Mobile Computing Systems & Applications

Journals & Scientific Magazines

- TOCHI: ACM Transactions on Computer-Human Interaction
- TOIS: ACM Transactions on Information Systems
- Machine Vision and Applications Journal
- Computers & Graphics
- Personal and Ubiquitous Computing
- The Journal of Collaborative Computing
- IEEE Pervasive Computing Magazine
- Software: Practice and Experience

Grant Review

2009	National Science & Engineering Research Council (NSERC, Canada)
2009	National Science Foundation Panel (NSF, USA)
2008	National Science & Engineering Research Council (NSERC, Canada)
2006	National Science Foundation Panel (NSF, USA)
2006	State of Louisiana Board of Regents (R&D Program of the Board of Regents Support Fund, USA)
2005	The Knowledge Foundation (http://www.kks.se , Sweden)

OTHER RELEVANT INFORMATION

Research Work Reported in the Media

- [MC.11] Rubner, J. Tech professor designing camera cloak. Atlanta Business Chronicle. June 15, 2007.
- [MC.10] Medley, M. In future, everything will be a computer. National Post. May 19, 2007.
<http://www.nationalpost.com/story.html?id=42620fdf-6339-40c6-9775-dcad5d623f51>
- [MC.9] DominInc. Science News. July, 2006. 170(1), p.14.
- [MC.8] White light blinds film pirates. BBC News, June 20, 2006.
<http://news.bbc.co.uk/2/hi/technology/5097774.stm>
- [MC.7] Berzon, A. The Anti-Paparazzi Flash. N.Y. Times Magazine, The 5th Annual Year in Ideas Issue. December 11, 2005, p. 60. <http://www.nytimes.com/2005/12/11/magazine/11ideas1-3.html>
- [MC.6] Narayan, A.L. Security aid blinds phone cameras. Laser, optics and photonics resources and news. Oct 3, 2005.

- [MC.5] Eng, P. Tech Students Devise a Way to Block Prying Eyes. ABC News. September 20, 2005. <http://abcnews.go.com/Technology/FutureTech/story?id=1139800>
- [MC.4] Perton, M. Grad student develops camera-blocking system. Engadget. September 19, 2005. <http://www.engadget.com/2005/09/19/grad-student-develops-camera-blocking-system/>
- [MC.3] Kanellos, M. Crave Privacy? New Tech Knocks Out Digital Cameras. CNET News. September 19, 2005. http://news.com.com/Crave+privacy+New+tech+knocks+out+digital+cameras/2100-1008_3-5869832.html.
- [MC.2] Biever, C. Illicit Snappers Caught Infrared Handed. New Scientist, Issue 2515. September 3, 2005, p. 24. <http://www.newscientist.com/channel/info-tech/mg18725156.500>
- [MC.1] Television story on Classroom 2000 shown on WAGA-TV (Fox Atlanta) during Good Day Atlanta morning show. February 18, 1999.

Software Artifacts

- [S/W.3] Personal Audio Loop. Application developed for Motorola i-series handheld phones to support near-term audio reminders. Designers: Khai Truong, Shwetak Patel, Gillian Hayes, Julie Kientz, Giovanni Iachello, Rob Farmer & Gregory Abowd. Provisional patent filed, 2004.
- [S/W.2] INCA Toolkit. Software framework for development of automated capture & access applications. Designers: Khai Truong & Gregory Abowd. Provisional patent-filed, 2002.
- [S/W.1] StuPad. Software system that works with Georgia Tech's eClass/Classroom 2000 system to support the personalized electronic note-taking by students. Designers: Khai Truong & Gregory Abowd. Provisional patent filed, 1999.