

1. Personal Information**A. Current Position**

Rank: Post-Doctoral Research Associate
Institution: University of Maryland Baltimore County
Department: Information Systems Department

B. Addresses

Office: University of Maryland Baltimore County
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C. Education

Degree	Date	School	Major
Ph.D.	Dec. 2008	Carnegie Mellon University	Human-Computer Interaction
M.S.	Dec. 2006	Carnegie Mellon University	Human-Computer Interaction
M.S.	Dec. 2002	Drexel University	Computer Science
B.S.	Dec. 2002	Drexel University	Computer Science

D. Employment Background

Date	Position	Institution or Company
01/11-present	Post-Doctoral Research Associate	University of Maryland Baltimore County (UMBC), Baltimore MD
11/08—11/10	Senior Engineer	Lockheed Martin Advanced Technology Laboratories, Cherry Hill NJ
09/07—10/08	Graduate Student	Pittsburgh Science of Learning Center (PSLC), Carnegie Mellon University, Pittsburgh PA
06/07—09/07	Summer Intern	Fuji-Xerox Palo Alto Laboratory (FXPAL), Palo Alto CA
09/02—06/07	Graduate Student	Pittsburgh Science of Learning Center (PSLC), Carnegie Mellon University, Pittsburgh PA
09/01—09/02	Research Assistant	Geometric & Intelligent Computing Laboratory (GICL), Drexel University, Philadelphia PA
06/01—09/01	Guest Researcher	OpenCASCADE, Matra DataVision, Palaiseau France
08/00—06/01	Research Assistant	GICL, Drexel University, Philadelphia PA
05/00—08/00	Guest Researcher	Design Process Group, National Institute of Standards & Technology (NIST), Gaithersburg MD
09/99—05/00	Research Assistant	GICL, Drexel University, Philadelphia PA

2. Research, Scholarly, and Creative Activities

A. Books

i. Theses

1. *Developing Handwriting-based Intelligent Tutors to Enhance Mathematics Learning.* Ph.D. thesis, Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University. December 2008.
2. *Evolving Board Evaluation Functions for a Complex Strategy Game.* Master's thesis, Department of Computer Science, Drexel University. December 2002.

B. Book Chapters

i. Non-Refereed Chapters

1. Enabling Pre-Hospital Documentation via Spoken Language Understanding on the Modern Battlefield, with Sharma, Kenny; Stibler, Kathleen; Regli, Susan Harkness; Tremoulet, Patrice D.; Gilbertson, David G.; and Gerhardt, Robert T. In *Advances in Human Factors and Ergonomics in Healthcare (Proceedings of the International Conference on Applied Human Factors & Ergonomics - AHFE'2010)*, ed. V.G. Duffy, CRC Press, p.642-651.

B. Journal Articles

i. Refereed Articles

1. Toward Next-Generation Intelligent Tutors: Adding Natural Handwriting Input, with Yang, Jie; and Koedinger, Kenneth R. *IEEE Multimedia* Volume 15, Issue 3, July 2008, p.64-68.
2. An Approach to Capturing Structure, Behavior and Function of Artifacts in CAD, with Regli, William C.; John, Jon E.; and Lombeyda, Santiago V. *Transactions of the ASME, the Journal of Computing and Information Science in Engineering* Volume 1, Issue 2, June 2001, p.186-192.

C. Conference or Workshop Papers

i. Refereed Conference Papers

1. A Lightweight Multistroke Recognizer for User Interface Prototypes, with Wobbrock, Jacob O. *Proceedings of Graphics Interface (GI'2010)*, Ottawa, Canada, 02 Jun 2010, p.245-252.
2. Benefits of Handwritten Input for Students Learning Algebra Equation Solving, with Yang, Jie; and Koedinger, Kenneth R. *Proceedings of the International Conference on Artificial Intelligence and Education (AIED'2007)*, Los Angeles, CA, 12 Jul 2007, p.521-523.
3. Towards the Application of a Handwriting Interface for Mathematics Learning, with Yang, Jie; and Koedinger, Kenneth R. *IEEE Conference on Multimedia and Expo (ICME'2006)*, Toronto, Canada, 12 July 2006, p.2077-2080.
4. Evaluation of Multimodal Input for Entering Mathematical Equations on the Computer, with Yang, Jie; and Koedinger, Kenneth R. *ACM Conference on Human Factors in Computing Systems (CHI'2005)*, Portland, OR, 6 April 2005, p.1184-1187.
5. Student Question-Asking Patterns in an Intelligent Algebra Tutor, with Corbett, Albert; Wagner, Angela Z.; Stevens, Scott M.; and Koedinger, Kenneth R. *Intelligent Tutoring Systems Conference (ITS'2004)*, Maceio, Brazil, 30 Aug 2004, p.455-467.

6. Building Internet-Based Virtual Environments for Collaborative Design, with Shapirshteyn, Yuriy; Foster, Cheryl V.; John, Jon E.; and Regli, William C. *Co-Designing Conference*, Coventry, UK, 11 Sep 2000, p.117-122.

ii. Refereed Workshop Papers

1. Technical and Privacy Challenges of Multimodal Dynamic Adaptive Systems. *Proceedings of the SIGCHI Workshop on Dynamic Accessibility (WODA'2011)*, Vancouver, Canada, 08 May 2011, to appear.
2. Handwriting Interaction for Math Tutors: Lessons for HCI in Education, with Yang, Jie; and Koedinger, Kenneth R *Proceedings of the SIGCHI Workshop on Child-Computer Interaction (UI Technologies and their Impact on Educational Pedagogy)*, Vancouver, Canada, 07 May 2011, to appear.
3. Medical Intelligence Informatics, with Regli, Susan Harkness; Tremoulet, Patrice D.; Samoylov, Alexei; Sharma, Kenny; and Stibler, Kathleen. *Proceedings of the SIGCHI First International Workshop of Interactive Systems in Healthcare (WISH'2010)*, Atlanta, GA, 10 Apr 2010, p.145-148.
4. Adapting Handwriting Recognition for Applications in Algebra Learning, with Yang, Jie; and Koedinger, Kenneth R. *Proceedings of the ACM Workshop on Educational Multimedia and Multimedia Education (EMME'2007)*, Augsburg, Germany, 28 September 2007, p.47-56.
5. Discovering Knowledge in Design and Manufacturing Repositories, with Foster, Cheryl V.; Hayes, Erik; McWherter, David; Peabody, M.; Shapirsteyn, Yuriy; and Regli, William C. *International Joint Conferences on Artificial Intelligence (IJCAI) Workshop on Knowledge Discovery from Distributed, Heterogeneous, Dynamic, Autonomous Data Sources*, Seattle, WA, ed. V. Honavar, 06 Aug 2001, p.40-42.

ii. Symposia Presentations and Papers

1. Interspersing Annotated Worked Examples in Algebra Problem Solving, with Yang, Jie; and Koedinger, Kenneth R. Presented as part of the *Annual Conference of the European Association for Research on Learning and Instruction (EARLI'2009)*, Symposium entitled, "In Vivo Experimentation on Worked Examples Across Domains," Salden, R.J.C.M. and Koedinger, K.R., eds., Amsterdam, the Netherlands, 26 Aug 2009.

D. Other Articles, Tech Reports, Letters, etc.

1. How Handwriting Input Helps Students Learning Algebra Equation Solving, with Yang, Jie; and Koedinger, Kenneth R. *Technical Report CMU-HCII-08-100*, 1 Mar 2008.
2. Entering Mathematical Equations Multimodally: Results on Usability and Interaction Patterns, with Yang, Jie; and Koedinger, Kenneth R. *Technical Report CMU-HCII-06-101*, 15 Mar 2006.
3. CUP: A Computer-Aided Conceptual Design Environment for Assembly Modeling, with Regli, William C.; John, Jon E.; and Lombeyda, Santiago V. *Technical Report DU-MCS-01-05*, 01 Sep 2001.
4. The Engineering Design Repositories Project, with Cicirello, Vincent A.; John, Jon E.; Qin, Xiaoli; Shapirshteyn, Yuriy; Zaychik, Vera; and Regli, William C. *National*

Science Foundation Design and Manufacturing Grantees Conference, Vancouver, BC, Canada, 03 Jan 2000.

E. Invited Talks or Presentations

Date	Activity	Location
2011	invited paper presentation	SIGCHI Workshop on Dynamic Accessibility, Vancouver, Canada
2011	paper presentation	SIGCHI Workshop on Child-Computer Interaction, Vancouver, Canada
2010	paper presentation	AHFE 2010 Conference on Human Factors & Ergonomics in Healthcare, Miami, FL
2010	paper presentation	Graphics Interface 2010 Conference, Ottawa, Canada
2009	symposium talk	EARLI 2009 Conference, Amsterdam, the Netherlands
2008	presentation	Carnegie Mellon University, thesis defense
2007	demonstration	ACM Multimedia EMME Workshop, Augsburg, Germany
2007	paper presentation	ACM Multimedia EMME Workshop, Augsburg, Germany
2007	lecture	User Sciences and Experiences Research group seminar, IBM Almaden Research Center, San Jose, CA
2007	poster	AIEd Conference, Los Angeles, CA
2006	poster	Science of Learning Centers Symposium, Atlanta, GA
2006	paper presentation	IEEE ICME Conference, Toronto, Canada
2006	presentation	Carnegie Mellon University, thesis proposal
2006	poster	Carnegie Mellon University, Pittsburgh Science of Learning Center National Science Foundation Site Visit
2006	poster	Carnegie Mellon University, Human-Computer Interaction Institute 12 th Anniversary
2005	poster	Carnegie Mellon University, Pittsburgh Science of Learning Center National Science Foundation Site Visit
2005	paper presentation	ACM SIGCHI Conference, Portland, Oregon
2004	paper presentation	Intelligent Tutoring Systems Conference, Maceio, Brazil
2004	panelist	Intelligent Tutoring Systems Conference, Maceio, Brazil
2004	research report	Carnegie Mellon University, Communication Requirement
2003	research report	Carnegie Mellon University, Communication Requirement
2000	paper presentation	Co-Designing Conference, Coventry, UK
2000	lecture	Drexel University, DragonWeek
1999	poster	Drexel University, Research Day
1999	paper presentation	ASME Design & Technical Conference, Las Vegas, NV

F. Fellowships, Prizes, and Awards

Date	Award	Institution/Organization
2002—2005	NSF Graduate Research Fellowship	National Science Foundation
2001	Delaware Valley Technical Recruiters Network Annual Award for Computer Science	Drexel University
2001	National Outstanding Undergraduate Computing Research Association	
2000	Summer Undergraduate Research	National Science Foundation

2000	Fellowship Award Recipient	James W. Lindemer Endowed Scholarship
2000	Senior First Honors Award	Drexel University
2000	Research Fellowship	AT&T Labs Internet Platforms Technology Organization
1999	Research Experience for Undergraduates Supplement under CMU-9713718, Design Classification for Hybrid Generative/Variant Process Planning	National Science Foundation
1999	Award for Outstanding Industry, Leadership, and Academics in Computer Science	Drexel University
1999	Recipient	Harry E. Muchnic Scholarship
1998—2002	Honors Program	Drexel University
1997—2002	Dean's List	Drexel University College of Arts & Science

3. Teaching and Mentorship

A. Courses Taught or Assisted

i. Co-Instructor

1. 05-291/15-291 Human-Computer Interaction for Computer Scientists, Spring 2007
Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh PA

ii. Teaching Assistant

1. 05-410/05-610 Introduction to Human-Computer Interaction Methods, Fall 2005
Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh PA

B. Student and Staff Supervision

Date	Name and Description	Duration
2011 (Jun)	Brian Sallerson, Dostoral Candidate	ongoing
2011 (Mar)	Jianwei (Vivian) Lai, Doctoral Candidate	ongoing
2011 (Mar)	Patrick Carrington, Undergraduate Research Assistant	ongoing
2011 (Mar)	Peng Chu, Doctoral Candidate	ongoing
2011	Samyukta Ganesan, Master's Student and Research Assistant	3 months
2008-2010	Various, Engineering Staff	various
2006	Keisha How, Undergraduate Research Assistant	3 months
2005	Thomas Bolster, Research Assistant	4 months
2004	Andrea Knight, Master's Student and Research Assistant	3 months

4. Service and Memberships

A. University

i. Departmental

Date	Title	Committee
2006—2008	Member	SCRG 2 nd Floor Lounge Committee

2006—2007	Coordinator	CMU HCII PhD Thesis Defense Toasts
2005—2007	Coordinator	CMU HCII PhD Biweekly Lunch Seminars
2003	Member	CMU HCII Admissions Committee
1997—1998	Assistant Webmaster	Drexel Mathematics & Computer Science Department
1997—2002	Member	Drexel Mathematics & Computer Science Society
1996—1997	Captain	Brick Memorial High School Math Team

ii. College and Divisional

Date	Title	Committee
2002—2008	Member	Women@SCS Graduate Student Council
2007	Program Committee	OURCS Conference (Opportunities for Undergraduate Research in Computer Science)
2007—2008	Member	SCS Graduate Women Mentoring Program
2007—2008	Contributing Editor	SCS Guide to Living in Pittsburgh
2002—2003	Member	CMU School of Computer Science Dec/5, Inc.

iii. Community

Date	Title	Committee
2010-present	Volunteer	Philadelphia Animal Welfare Society (PAWS)
2009-present	Volunteer	Philadelphia Clean Air Council
2005-2006	Organizing Member	Technology Night for Girls at Pittsburgh's CyberConXion

B. Professional

i. Professional Memberships

Date	Organization
2000-present	Association for Computing Machinery (ACM)
2000-present	Institute for Electronics and Electrical Engineers (IEEE) Society

ii. Conference Committees

Date	Conference or Event
2011	ACM International Conference on Multimodal Interaction (ICMI) Technical Program Committee member
2010	ACM Multimedia 2010 Technical Program Committee member

iii. Reviewing

Date	Conference or Publication
2011	ACM Symposium on User Interface Software and Technology (UIST)
2011	Graphics Interface (GI)
2011	ACM Conference on Human Factors in Computing Systems (CHI)
2011	International Conference on Pervasive Computing
2010	Human-Computer Interaction (Journal)
2010	ACM Interactive Tabletops and Surfaces (ITS)
2010	ACM Multimedia (MM)
2010	Designing Interactive Systems (DIS)
2010	ACM Conference on Human Factors in Computing Systems (CHI)
2009	ACM Conference on Human Factors in Computing Systems (CHI)

2009	International Journal of Document Analysis and Recognition (IJDAR)
2008	ACM Conference on Human Factors in Computing Systems (CHI)
2008	International Conference on Multimodal Interfaces (ICMI)
2008	International Conference on Intelligent Tutoring Systems (ITS)
2008	ACM Symposium on User Interface Software and Technology (UIST)
2007	International Conference on Artificial Intelligence in Education (AIED)
2007	International Journal of Document Analysis and Recognition (IJDAR)
2007	ACM Workshop on Educational Multimedia and Multimedia Education (EMME)
2006	ACM Symposium on User Interface Software and Technology (UIST)

iv. Student Volunteer

Date	Conference or Event
2001	International Joint Conferences on Artificial Intelligence (IJCAI)

5. References

Available upon request.