

1. Personal Information**Current Position**

Rank: Graduate Student (6th year)
 Institution: Carnegie Mellon University
 Department: Human Computer Interaction Institute, School of Computer Science
 Laboratories: Member, Pittsburgh Science of Learning Center (PSLC)
 Member, Pittsburgh Advanced Cognitive Tutor Center (PACT)
 Member, Interactive Systems Laboratory (ISL)

Addresses

Office: Human Computer Interaction Institute
 Carnegie Mellon University
 5000 Forbes Avenue
 Pittsburgh, PA 15213
 412-268-8856 phone
 412-268-1266 fax

Home: 2036 Wendover Street, Apt #4, Pittsburgh, PA 15217
 412-720-4737

Email: lanthony@cs.cmu.edu
 URL: <http://www.cs.cmu.edu/~lanthony/>

Education

Degree	Date	School	Major
Ph.D.	Aug. 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

Employment Background

Date	Position	Institution
09/07-present	Graduate Student	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	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 Gaithersburg MD
09/99—05/00	Research Assistant	GICL, Drexel University, Philadelphia PA

2. Research, Scholarly, and Creative Activities

A. Books

i. Theses

1. *Evolving Board Evaluation Functions for a Complex Strategy Game*. Master's thesis, Department of Computer Science, Drexel University. December 2002.

B. Journal Articles

i. Refereed Articles

1. 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. pp.186-192.

C. Conference or Workshop Papers

i. Refereed Conference Papers

1. 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.
2. 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.
3. 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.
4. 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.
5. 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. 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.
2. 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.

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

1. 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.
2. 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.
3. 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
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	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

D. 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 Fellowship Award	National Science Foundation
2000	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
2004	Andrea Klein, Master's Student and Research Assistant	3 months
2005	Thomas Bolster, Research Assistant	4 months
2006	Keisha How, Undergraduate 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-present	Member	Women@SCS Graduate Student Council
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
2005-2006	Organizing Member	Technology Night for Girls at Pittsburgh's CyberConXion in association with Carnegie Mellon University's Entertainment Technology Center

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. Reviewing

Date	Conference or Publication
2006	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 (IJ DAR)

iii. Student Volunteer

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

5. References

Available upon request.