AARON BAUER

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PROFILE

User Experience Designer, with doctorate in human-computer interaction from the School of Computer Science at Carnegie Mellon University. Industry and research experience designing and evaluating web interfaces. Research focuses on the design, development and evaluation of improved note-taking technologies for active reading. Industry experience conducting usability evaluations and successfully managing small content development teams.

KEY SKILLS

User Testing: Think-Aloud, Heuristic Evaluation, Cognitive Walkthrough

Requirements Gathering: Artifact Analysis, Interviewing, Contextual Inquiry, Surveys

Experimental Design and Evaluation, Statistical Analysis

Project and Team Management

Proficient: Javascript, HTML, VBA (for Excel analyses)

Familiar: Java, C++, MySQL, PHP, Photoshop, InDesign

EXPERIENCE

Graduate Research Assistant, **Carnegie Mellon University**   Aug '02-Current

Responsibilities: Independently conceive and undertake research into digital note-taking technologies that improve learning. Develop and deliver modular web-based note-taking applications. Conduct design studies using think-aloud and iterative design principles to gather requirements and evaluate interfaces. Deliver concrete evidence of the impact of note-taking elements through controlled experimentation and analysis. Serve as teaching-assistant, teaching usability methods to graduate students. Conduct usability studies for learning technology group.

Selected Achievements: Reported award-winning work at major HCI and Educational Technology conferences. Designed, implemented and analyzed 4 experimental evaluations and 2 design studies. Conducted additional 3 usability studies at Carnegie Mellon University.

Content Manager, BigFix Inc.   Jan '02-Aug '02

Responsibilities: In charge of content development for proprietary patch-management security software. Managed team of 4-7 part-time content engineers. Worked with national computer manufacturer to coordinate custom security content.

Selected Achievements: Led on-time completion of first release of Enterprise Security Content. Restructured content development process, shortening initial patch response time from 48 hours to less than 24 hours.

Knowledge Engineer/Usability Specialist, Digital Jones   Jun '00-Jun'01

Responsibilities: Conducted usability evaluations of online expert system-based shopping advisors, using think-aloud protocol and heuristic evaluation. Drafted specifications for new functionality, and created mockups of revised interfaces. Independently developed advisors through interviews with experienced salespeople. Created demo advisors for sales visits.

Selected Achievements: Co-led first site redesign based on user-tests and interviews with salespeople, increasing click-through rate. Created five shopping advisors available on top-ranked comparison shopping website.

Intern - U.S. Embassy, Madrid   Jun '98-Sept '98

Conducted in-depth economic research both independently and in response to State Department action requests. Drafted cables that were dispatched to State Department headquarters in Washington.

EDUCATION

Carnegie Mellon University
Ph.D., Human-Computer Interaction, School of Computer Science
June 2008

University of California, San Diego
B.S. in Cognitive Science, 2000
Magna Cum Laude
Minors: History, European Studies (Language and Culture)
Year Abroad: Granada, Spain

HONORS

CHI 2007, Honorable Mention for Best Paper

Ed-Media 2005, Best Poster Award

UC Regents Scholar (highest institutional scholarship)

Phi Beta Kappa

National Merit Finalist

Provost Honors, UCSD (all eligible quarters)

SELECTED PUBLICATIONS

Bauer, A., Koedinger, K. 2008. Note-Taking, Selecting, and Choice: Designing Interfaces that Encourage Smaller Selections. *Joint Conference on Digital Libraries* (JCDL '08). To Appear.
Bauer, A., Koedinger, K. "Selection-Based Note-Taking Applications." *Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI '07). 981-990

Bauer, A., Koedinger, K. "Pasting and Encoding: Note-taking in Online Courses." *IEEE ICALT '06*. 789-793