Welcome to the 23rd Annual HCIL Symposium

Benjamin B. Bederson
Director - HCIL
Associate Professor - Computer Science
Human-Computer Interaction Laboratory (HCIL)

- Interdisciplinary Group
  - Computer Science
  - Information Studies
  - Psychology
  - Biology
  - Business
  - English
  - Education
  - Engineering
  - Government & Politics
  - Maryland Institute of Technology in the Humanities

- Part of UMIACS, the Institute for Advanced Computer Studies

Design, implement, and evaluate novel interaction technologies that are universally usable, useful, efficient, and appealing.
Resurgence of Awareness of UI

Web 2.0
- Usability
- Democracy
- Users rule

Bigger displays
More visual
More devices
HCIL Members

HCIL Faculty

- Ben Bederson, Allison Druin, François Guimbretière, Kent Norman, Doug Oard, Catherine Plaisant, Jenny Preece, Ben Shneiderman, Vibha Sazawal, Ann Weeks

- Eric Baehrecke, Evan Golub, Paul Herrnson, Anita Komlodi, Wolfgang Jank, Matt Kirschenbaum, Jonathan Lazar, Gary Rubloff, Galit Shmueli, Martha Nell Smith, Dagobert Soergel

Staff

- Aaron Clamage, Jesse Grosjean, Daqing He, Hilary Hutchinson, Hyunmo Kang, Sabrina Liao, Cyndy Parr, Mary Ramos, Anne Rose, Kiki Schneider, Ryen White
HCIL Students

**College of Information Studies**
- Laura Hadley, Jinmook Kim, Xiaoli Huang, Baolong Liu, Sheri Massey, Tracey Masterson, Katy Newton, Deborah Wallace, Jianqiang Wang

**Computer Science**
- Georg Apitz, Aleks Aris, Nicholas Chen, Gene Chipman, Jerry Fails, Hilary Hutchinson, Amy Karlson, Bill Kules, Bongshin Lee, Chunyuan Liao, Adam Perer, James Rose, Hyun Young Song, Haixia Zhao

**Education**
- Mona Leigh Guha

**Psychology**
- Susan Campbell, Anna Walkyria Rivadeneira, Ben Smith
New Website

2nd Google hit for “HCI” after hcibib.org
New Space Coming

- HCIL Expanding into Hornbake Library
- Increased connections to CLIS
- Look for new venue next year...
International Children’s Digital Library Reaches 1,000,000 users

- With ~1,000 books
- In 35 languages
- Working with the World Bank
- Going to Mongolia
- Started a non-profit Foundation

www.childrenslibrary.org
New Service Work

- Life is short, and Work is fun
- So we we decided to bring them together
- And we put out a call for our time

Paint Branch river cleanup
14 HCILers, 27 bags of trash, 12 bags of recyclables, 3 tires and a bit of rain...
Service Project: Backyard Jungle (w/ PBS)

Helping PBSKids.org & Forum One Comm.

=> Redesigning Backyard Jungle

Led by HCIL Prof. Allison Druin
Service Project: Institute for End User Computing

Running survey and forum to identify sources of computer rage, end user expectation failures, orphaned computer

=> Inform future system design

Led by HCIL Prof. Kent Norman
HCIL Successes

- Ph.D. Graduates:
  - Hilary Hutchinson
  - Jinmook Kim
  - Bill Kules
  - Bongshin Lee
  - Jianqiang Wang
  - Haixia Zhao

- Job Placement
  - University of Buffalo
  - University of Iowa
  - University of South Carolina
  - Microsoft Research
  - Google

- Major honors:
  - IBM Faculty Award for Piccolo (Ben Bederson)
  - American Association for University Women (College Park Chapter) for Ph.D. (Haixia Zhao)
  - Best student paper at JCDL 2005 (Jack Kustanowitz)
HCIL Publications

- Conferences:
  - HCIL Symposium 2006 w/ workshops & tutorials
  - Workshop on HCI and U.S. Public Policy – CHI 2006
  - Workshop on InfoViz evaluation (BELIV) – AVI 2006
  - Workshop on Creativity Support Tools – 2005
  - Visual Analytics Science & Technology Contest 2006
  - Upcoming major conference on Creativity & Cognition - 2007

- CACM Special Issues on:
  - Personal Information Management (Jan 2006)
  - Exploratory Search (April 2006)

- Many conference and journal publications...
- 22 Tech Reports published
HCIL Software

- Recently available software
  - Hierarchical Clustering Explorer
    www.cs.umd.edu/hcil/hce
  - International Children’s Digital Library
    www.childrenslibrary.org
  - iSonic – Data Sonification for Blind Users
    www.cs.umd.edu/hcil/audiomap
  - SpaceTree – Tree browser
    www.cs.umd.edu/hcil/spacetree
  - TaxonTree – Application of SpaceTree to animal taxonomy
    www.cs.umd.edu/hcil/biodiversity
  - TimeSearcher – Time-series data visualization
    www.cs.umd.edu/hcil/timesearcher
  - TreePlus – Network Visualization
    http://www.cs.umd.edu/hcil/treeplus

- Piccolo (Java & C#) – Structured graphics toolkit
  www.cs.umd.edu/hcil/piccolo
Research supporters

- **Major Supporters**
  - ARDA / Booz Allen Hamilton
  - Institute for Museum and Library Services (IMLS)
  - Microsoft Research
  - National Science Foundation (NSF)

- **Additional Supporters**
  - AOL
  - Mellon Foundation
  - National Institute of Standards and Technology (NIST)
  - U.S. National Park Foundation
Symposium 2006 Supporters

- UMD campus units:
  - Department of Computer Science (CS)
  - Institute for Advanced Computer Studies (UMIACS)
  - College of Computer, Mathematical and Physical Sciences (CMPS)
  - Institute for Systems Research (ISR)
  - College of Information Studies (CLIS)
  - Dingman Center for Entrepreneurship
Symposium Program

9am: Presentations
12:30pm: Lunch
1:45pm: Final Presentations
3:30pm: Posters and Demos (with cake!)

Enjoy the presentation slides, paper abstracts, DVD, etc. in your bag

Please don’t forget the survey (w/ prize!)
Today’s Topics

Morning

**Keynote: “Creativity Support Tools”**

**Visual Interfaces**
- Web Search
- The “erotic” in Emily Dickinson
- Network Visualization
- Social Networks
- Publication Analyses

**Public Access**
- International Children’s Digital Library
- ICDL Communities
- Children’s Field Trips
- Voting Machines

Afternoon

**Interaction & Devices**
- Mobile devices & thumbs
- Eye tracking for search
- 3D Annotation
- Active Pens
- Document Navigation
- Mobile Mapping