

CURRICULUM VITAE

Harry S Hochheiser
University of Pittsburgh

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Pittsburgh, PA 15217

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Citizenship: USA

EDUCATION and TRAINING

Undergraduate

1985 - 1989

Massachusetts Institute of Technology
Cambridge, Massachusetts, USA

BS
Computer Science and Engineering

Graduate

1998 - 2003

University of Maryland
College Park, Maryland, USA

PhD
Computer Science
Ben Shneiderman

1989 - 1991

Massachusetts Institute of Technology
Cambridge, Massachusetts, USA

MS
Electrical Engineering and
Computer Science
Rishiyur S. Nikhil

Postgraduate

7/2003 - 7/2006

National Institute on Aging
Baltimore, MD

Post-Doctoral
Computational Biology
Ilya Goldberg

APPOINTMENTS and POSITIONS

Academic

2012 - Present

Kenneth P. Dietrich School of Arts and Sciences

Assistant Professor

	Sciences University of Pittsburgh Pittsburgh, Pennsylvania, USA	Intelligent Systems Program
2009 - Present	Medicine University of Pittsburgh Pittsburgh, Pennsylvania, USA	Assistant Professor Biomedical Informatics
2006 - 2009	Towson University Towson, Maryland USA	Assistant Professor Computer and Information Sciences
2003 - 2006	Image Informatics, Computational Biology Unit National Institute on Aging Baltimore, Maryland USA	Postdoctoral Researcher Laboratory of Genetics
1998 - 2003	University of Maryland College Park, Maryland, USA	Graduate Student Computer Science
1991 - 1993	Tufts University School of Medicine Boston, Massachusetts, USA	Research Staff Rehabilitation Medicine
1990 - 1991	Massachusetts Institute of Technology Cambridge, Massachusetts, USA	Graduate Student Laboratory for Computer Science
Non-Academic		
1993 - 1995	Massachusetts General Hospital Boston, Massachusetts, USA	Software Developer Biomedical Engineering
5/1995 - 12/1995	AT&T Bell Labs Murray Hill, New Jersey, USA	Software Developer
1996 - 1998	H. Systems Princeton, New Jersey, USA	Consultant
6/1999 - 9/1999	IBM T.J. Watson Labs Hawthorne, New York, USA	Summer Intern

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

2009 - Present	Member, American Medical Informatics Association
2004 - Present	Member, Association of Computing Machinery

HONORS and AWARDS

2002 Selected for Doctoral Consortium, ACM Special Interest Group on
Computer-Human Interaction
2002 - 2003 America Online Fellowship in Human-Computer Interaction

PUBLICATIONS

Peer-reviewed Publications

1. Landis-Lewis Z, Brehaut JC, Hochheiser H, Douglas GP, Jacobson RS. Computer-supported feedback message tailoring: Theory-informed adaptation of clinical audit and feedback for learning and behavior change. *Implementation Science*. (accepted).
2. Ligons FM, Mello-Thoms C, Handler SM, Romagnoli KM, Hochheiser H. Assessing the impact of cognitive impairment on the usability of an electronic medication delivery unit in an assisted living population. *International Journal of Medical Informatics*. 2014 Jul 27. PMID: 25153770.
3. Borromeo CD, Schleyer TK, Becich MJ, Hochheiser H. Finding collaborators: toward interactive discovery tools for research network systems. *Journal of Medical Internet Research*. 2014; 16 (11):e244. PMID: 25370463. doi: 10.2196/jmir.3444.
4. Romagnoli KM, Handler SM, Hochheiser H. Home care: more than just a visiting nurse. *BMJ quality & safety*. 2013 Dec; 22 (12):972-4. PMID: 23940375. doi: 10.1136/bmjqs-2013-002339.
5. Lazar J, Hochheiser H. Legal Aspects of Interface Accessibility in the U.S. *Communications of the ACM*. 2013 Dec; 56 (12):74-80.
6. Brinkley JF, Borromeo C, Clarkson M, Cox TC, Cunningham MJ, Detwiler LT, Heike CL, Hochheiser H, Mejino L, Travillian RS, Shapiro LG. The Ontology of Craniofacial Development and Malformation for translational craniofacial research. *Seminars in Medical Genetics* DOI: 10.1002/ajmg.c.31377. 2013 Oct 4; 1-14. PMID: 24124010.
7. Handler SM, Boyce RD, Ligons FM, Perera S, Nace DA, Hochheiser H. Use and Perceived Benefits of Mobile Devices by Physicians in Preventing Adverse Drug Events in the Nursing Home. *Journal of The American Medical Directors Association*. 2013 Oct 2. PMID: 24094901.
8. Wentz B, Hochheiser H, Lazar J. A Survey of Blind Users on the Usability of Email Applications. In: *Universal Access in the Information Society International Journal*. Springer-Verlag, 2013 Aug. p.327-36.
9. Romagnoli KM, Handler SM, Ligons FM, Hochheiser H. Home-care nurses' perceptions of unmet information needs and communication difficulties of older patients in the immediate post-hospital discharge period. *BMJ quality & safety*. 2013 Apr; 22 (4):324-32. PMID: 23362507. PMID: 23362507.
10. Clayton M, Borromeo C, Hess S, Hochheiser H, Schleyer T. An initial, qualitative investigation of patient-centered education in dentistry. *Studies in health technology and informatics*. 2013; 183:314-8. PMID: 23388305.
11. Boyce RD, Freimuth RR, Romagnoli KM, Pummer T, Hochheiser H, Empey PE. Toward semantic modeling of pharmacogenomic knowledge for clinical and translational decision support. *AMIA Joint Summits on Translational Science*

- Proceedings AMIA Summit on Translational Science. 2013; 2013:28-32. PMID: PMC3814496. PMID: 24303292.
12. Kohle-Ersher A, Chatterjee P, Osmanbeyoglu HU, Hochheiser H, Bartos C. Evaluating the barriers to point-of-care documentation for nursing staff. *Comput Inform Nurs* doi: 10.1097/NCN.0b013e3182343f1. 2012 Mar; 30 (3):126-33. PMID: 22024972.
 13. Ligons FM, Romagnoli KM, Browell S, Hochheiser H, Handler SM. Assessing the Usability of a Telemedicine-based Medication Delivery Unit for Older Adults through Inspection Methods. *AMIA Annu Symp Proc* 2011. 2011 Oct; 2011:795-804. PMID: PMC3243181. PMID: 22195137.
 14. Hochheiser H, Aronow BJ, Artinger K, Beaty TH, Brinkley JF, Chai Y, Clouthier D, Cunningham ML, Dixon M, Donahue LR, Fraser SE, Hallgrimsson B, Iwata J, Klein O, Marazita ML, Murray JC, Murray S, de Villena FP, Postlethwait J, Potter S, Shapiro L, Spritz R, Visel A, Weinberg SM, Trainor PA. The FaceBase Consortium: a comprehensive program to facilitate craniofacial research. *Dev Biol*. 2011 Jul 15; 355 (2):175-82. PMID: PMC3440302. PMID: 21458441.
 15. Dierbach C, Hochheiser H, Collins S, Jerome G, Ariza C, Kelleher T, Kleinsasser W, Dehlinger J, Kaza S. A model for piloting pathways for computational thinking in a general education curriculum. In: *Proceedings of the 42nd ACM technical symposium on Computer science education. SIGCSE '11*; 2011 Mar 9-12; Dallas, TX 2011. p.257-262.
 16. Hochheiser H, Lazar J. Revisiting breadth vs. depth in menu structures for blind users of screen readers. *Interacting with Computers*. 2010; 22 (5):389-398.
 17. Sauer G, Holman J, Lazar J, Hochheiser H, Feng J. Accessible Privacy and Security: A Universally Usable Human-Interaction Proof. *Universal Access in Information Society*. 2010; 9 (3):239-248.
 18. Sauer G, Lazar J, Hochheiser H, Feng J. Towards A Universally Usable Human Interaction Proof: Evaluation of Task Completion Strategies. *ACM Transactions on Accessible Computing*. 2010; 2 (4):15:1-15:32.
 19. Wentz B, Hochheiser H, Lazar J. Email usability for blind users. *Designing Inclusive Interactions (Proceedings of the 2010 Cambridge Workshop on Universal Access and Assistive Technology)*; London: Springer-Verlag; 2010. p.197-206.
 20. Taylor B, Hochheiser H, Azadegan S, O'Leary M. Cross-site Security Integration: Preliminary Experiences across Curricula and Institutions. *The 13th Colloquium for Information Systems Security Education*; Seattle Washington 2009.
 21. Hochheiser H, Lazar J. HCI and societal issues: a framework for engagement. *International Journal of Human-Computer Interaction*. 2007; 23 (3):339-374. (invited).
 22. Bederson BB, Lazar J, Johnson J, Hochheiser H, Karat C. Workshop on SIGCHI public policy. In: *CHI '06 extended abstracts on Human factors in computing systems. CHI EA '06*; 2006 Apr 22-27; Montreal, Quebec, Canada Association for Computing Machinery, 2006 Apr. p.1655-57.
 23. Hochheiser H, Goldberg G. Quasi-Hierarchical, Interactive Navigation of Images and Meta-Data in the Open Microscopy Environment. *2006 IEEE International Symposium on Biomedical Imaging*; 2006.
 24. Johnston J, Nagaraja A, Hochheiser H, Goldberg G. A Flexible Framework for Web

- Interfaces to Image Databases: Supporting User-Defined Ontologies and Links to External Databases. IEEE International Symposium on Biomedical Imaging. 2006.
25. Lazar J, Johnson J, Hochheiser H. Policy at the interface: HCI and public policy. interactions. 2005 Dec; 12 (6):13-14.
 26. Lazar J, Bederson B, Hochheiser H, Johnson J, Karat C. Making an impact in your community: HCI and US public policy. In: CHI '05 extended abstracts on Human factors in computing systems. CHI EA '05; Portland, OR Association for Computing Machinery, 2005 Apr.
 27. Goldberg IG, Allan C, Burel JM, Creager D, Falconi A, Hochheiser H, Johnston J, Mellen J, Sorger PK, Swedlow JR. The Open Microscopy Environment (OME) Data Model and XML file: open tools for informatics and quantitative analysis in biological imaging. Genome biology. 2005; 6 (5):R47. PMID: 15892875. PMCID: PMC1175959.
 28. Hochheiser H, Shneiderman B. Dynamic Query Tools for Time Series Data Sets: Timebox Widgets for Interactive Exploration. Information Visualization. 2004; 3:1-18.
 29. Hochheiser H, Baehrecke EH, Mount SM, Shneiderman B. Dynamic Querying for Pattern Identification in Microarray and Genomic Data. In: Proceedings IEEE Multimedia Conference and Expo. IEEE Multimedia Conference and Expo; 2003; Baltimore MD 2003. (invited).
 30. Shneiderman B, Hochheiser H. Universal Usability as a Stimulus to Advanced Interface Design. Behaviour & Information Technology. 2002; 20 (5):367-376.
 31. Hochheiser H. The Platform for Privacy Preference as a Social Protocol: An Examination within the U.S. Policy Context. ACM Transactions on Internet Technology. 2002; 2 (4):276-306.
 32. Hochheiser H, Shneiderman B. Using Interactive Visualizations of WWW Log Data to Characterize Access Patterns and Inform Site Design. Journal of the American society for Information Systems. 2001; 54 (4):331-343.
 33. Hochheiser H, Shneiderman B. Interactive Exploration of Time Series Data. In: Lecture Notes in Artificial Intelligence #2226. Discovery Science 2001; 2001. p.441-446.
 34. Keogh E, Hochheiser H, Shneiderman B. An Augmented Visual Query Mechanism for Finding Patterns in Time Series Data. In: Lecture Notes in Artificial Intelligence #2322. Fifth International conference on Flexible Query Answering Systems; 2000. p.240-251.
 35. Hochheiser H, Shneiderman B. Performance Benefits of Simultaneous over Sequential Menus as Task Complexity Increases. International Journal of Human-Computer Interaction. 2000; 12 (2):173-192.
 36. Hochheiser H, Shneiderman B. Understanding Patterns of User Visits to Web Sites: Interactive Starfield Visualizations of WWW Log Data. In: Proceedings ASIS '99 Annual Conference. ASIS '99; ASIS Press, 1999.
 37. Hochheiser H, Goodenough-Trepagnier C, Rosen MJ. A Model for the Evaluation and Selection of Adaptive Computer Interfaces. In: Proceedings of RESNA International. RESNA '93; RESNA Press, 1993.
 38. Goodenough-Trepagnier C, Hochheiser H, Rosen MJ, Chang HP. Assessment of Dysarthric Speech for Computer Control Using Speech Recognition: Preliminary

Results. In: Proceedings of RESNA International 1992. RESNA '93; RESNA Press, 1992.

Reviews, Proceedings of Conferences and Symposia (not peer-reviewed), Editorials

1. Schreck T, Gondy L, Hochheiser H, Goeuriot L, Kelly L, Mowery D, Nualart J, Ferraro G, Keim D. Task 1 of the CLEF eHealth Evaluation Lab. In: Working Notes for CLEF 2014 Conference. CLEF 2014 Conference; 2014 Sep 15-18; UK 2014 Sep.
2. Douglas GP, Hochheiser H, Landis-Lewis Z. Simplicity and usability: lessons from a touchscreen electronic medical record system in Malawi. *interactions*. 2011 Dec; 18 (6):50-53.
3. Hochheiser H, Shneiderman B. Electronic medical records: usability challenges and opportunities. *interactions*. 2011 Dec; 18 (6):48-49.
4. Hochheiser H, Shneiderman B. From Bowling Alone to Tweeting Together: Technology- Mediated Social Participation. *interactions*. 2010; 17 (2):64-67. (invited).
5. Turner C, Hochheiser H, Feng J, Taylor B, Lazar J, Azadegan S, O'Leary M. Cooperative Information Assurance Capacity Building. The 13th Colloquium for Information Systems Security Education; 2009 Jun; Seattle Washington 2009.
6. Lazar J, Hochheiser H, Johnson J, Karat C, Bederson B. CHI policy issues around the world. In: CHI '08 extended abstracts on Human factors in computing systems. CHI EA '08; 2008 Apr 5-10; Florence, Italy Association for Computing Machinery, 2008 Apr. p.2277-80.
7. Jerome GJ, Durm J, Hochheiser H, Appel LJ. Accessibility of Physical Activity Promotion Websites For Persons With Visual Impairments. 2nd International Congress on Physical Activity and Public Health; Amsterdam, the Netherlands 2008.
8. Hochheiser H, Yanowitz J. If I only had a brain: exploring mouse brain images in the Allen Brain Atlas. *Biology of the cell / under the auspices of the European Cell Biology Organization*. 2007 Jul; 99 (7):403-9. PMID: 17567264 (invited).
9. Hochheiser H, Shneiderman B. Universal usability statements: Marking the trail for all users doi 10.1145/361897.361913. *interactions*. 2001 Mar; 8 (2):16-18.
10. Hochheiser H, Shneiderman B. Coordinating Overviews and Detail Views of WWW Log Data. Workshop on New Paradigms in Information Visualization and Manipulation (NPIM 2000); ACM Press, 2000.
11. Hochheiser H. Principles for Privacy Protection Software. *Computers, Freedom and Privacy 2000: Workshop on Freedom and Privacy by Design*; ACM Press, 2000.
12. Hochheiser H. Indirect Threats to Freedom and Privacy: Governance of the Internet and the WWW. Paper and Panel, *Computers, Freedom and Privacy 2000*; ACM Press, 2000.

Books, Book Chapters, Monographs

1. Lazar J, Feng J, Hochheiser H. *Research Methods in Human-Computer Interaction*. London: Wiley; 2009.
2. Hochheiser H, Eliceiri K, Goldberg I. Visualization of Biological Data. In: Lengauer

- T, editor. Bioinformatics: from Genomes to Therapies. (pp. 1573-1626) .
Weinheim: Wiley-VCH, 2007. (invited).
3. Hochheiser H. Workplace Database Systems: Difficulties of Data Collection and Presentation. In: Friedman B, editor. Human Values and the Design of Computer Technology. (pp. 239-258) . Cambridge: Cambridge University Press/CSLI, 1997. (invited).

Other Publications

1. Hernandez, AM., Hochheiser, H., Horn, J., Jacobson, R., Boyce, RD. Testing Pre-Annotation to Help Non-Experts Identify Drug-Drug Interactions Mentioned in Drug Product Labeling. Panel presentation at Citizen + X: Volunteer-Based Crowdsourcing in Science, Public Health, and Government. A workshop held at the Second AAAI Conference on Human Computation and Crowdsourcing (HCOMP-2014) Pittsburgh, PA. November 2nd, 2014.
<http://www.aaai.org/ocs/index.php/HCOMP/HCOMP14/paper/viewFile/9259/9187>.

RESEARCH

Current research support

Funding Agency: NIH/NLM
Grant Number: N/A Cooper
Title of Grant: Center for Causal Modeling and Discovery of Biomedical Knowledge from Big Data

Principal Investigator: Cooper
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 9/15/2014 - 8/31/2018
Percent Effort: 20.0 %
Total Amount Awarded: \$7,924,466

Funding Agency: NIH
Grant Number: R24OD011883
Title of Grant: Supplement to Supplement to Semantic LAMHDI: Linking diseases to model organism resources

Principal Investigator: Haendel
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 8/1/2014 - 7/31/2015
Percent Effort: 1.5 %
Total Amount Awarded: \$88,284

Funding Agency: NIH/NCI
Grant Number: 1 U24 CA184407-01
Title of Grant: Cancer Deep Phenotype Extraction from Electronic Medical Records
Principal Investigator: Jacobson

Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 5/1/2014 - 4/30/2019
Percent Effort: 8.0 %
Total Amount Awarded: \$571,836

Funding Agency: NIH
Grant Number: 1U01DE024425-01
Title of Grant: Human Genomics Analysis Interface for FaceBase 2
Principal Investigator: Marazita
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 5/1/2014 - 4/30/2019
Percent Effort: 5.0 %
Total Amount Awarded: \$129,005

Funding Agency: NIH/NLM
Grant Number: 1 R01 LM011838-01
Title of Grant: Addressing gaps in clinically useful evidence on drug-drug interactions
Principal Investigator: Boyce
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 2/1/2014 - 1/31/2017
Percent Effort: 15.0 %
Total Amount Awarded: \$284,322

Funding Agency: Baobab Health Trust (CDC)
Grant Number: U2GGH00729
Title of Grant: Improving the delivery & management of HIV /AIDS care in Malawi through Appropriate Medical Informatics
Principal Investigator: Douglas
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 2/1/2014 - 2/1/2018
Percent Effort: 10.0 %
Total Amount Awarded: \$49,446

Funding Agency: Oregon Health Sciences University (NIH)
Grant Number: 1R24 OD011883
Title of Grant: Semantic LAMHDI: Linking diseases to model organism resources
Principal Investigator: Haendel
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 9/1/2012 - 6/30/2016
Percent Effort: 20.0 %
Total Amount Awarded: \$72,000

Funding Agency: NIH
Grant Number: 1U01HL112707

Title of Grant: Sarcoidosis and A1AT Genomics & Informatics Center
Principal Investigator: Naftali Kaminski
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 4/1/2012 - 3/31/2015
Total Amount Awarded: \$112,152

Funding Agency: AHRQ
Grant Number: 5R01HS021290
Title of Grant: Quantifying Electronic Medical Records Usability to Improve Clinical Workflow
Principal Investigator: Agha
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 4/1/2012 - 6/30/2016
Percent Effort: 10.0 %
Total Amount Awarded: \$67,936

Funding Agency: NIH
Grant Number: 3U01DE020050-03S1
Title of Grant: Ontology-based integration of human studies data
Principal Investigator: Linda Shapiro
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 9/9/2011 - 4/30/2014
Percent Effort: 10.0 %
Total Amount Awarded: \$517,877

Funding Agency: NIH
Grant Number: 1R01LM010964
Title of Grant: Interactive Search and Review of Clinical Records with Multi-layered Semantic Annotation
Principal Investigator: Wendy Chapman
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 7/1/2011 - 8/31/2015
Percent Effort: 20.0 %
Total Amount Awarded: \$484,626

Past research support

Funding Agency: Nat'l Coalition of Woman & Academic IT Alliance Seed Fund
Title of Grant: Multi-Level Mentoring
Principal Investigator: S. Azadegan
Hochheiser Role on Grant: PI (multiple)
Total Amount Awarded: \$15,000

Funding Agency: InRange Systems
Grant Number: N/A Handler

Title of Grant: A Randomized Controlled Trial to Assess the Impact of a Telemedicine Medication Delivery Unit on Medication Adherence Following Hospitalization for Congestive Heart Failure
Principal Investigator: Handler
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 4/1/2012 - 3/31/2013
Percent Effort: 5.0 %
Total Amount Awarded: \$290,128

Funding Agency: DHHS
Grant Number: 90TR0002-01
Title of Grant: SHARP Area 4: Secondary Use of EHR Data
Principal Investigator: Chute, C
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 4/1/2012 - 3/31/2014
Percent Effort: 20.0 %
Total Amount Awarded: \$50,000

Funding Agency: Pennsylvania Department of Aging
Grant Number: FY2010-007
Title of Grant: Feasibility of Using a Telemedicine Medication Delivery Unit for Older Adults that Require Medication Assistance During Transition from Hospital to Home
Principal Investigator: S. Handler
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 11/1/2010 - 6/30/2011
Percent Effort: 2.5 % (donated)
Total Amount Awarded: \$99,709

Funding Agency: University of Iowa (NIH)
Grant Number: 5 U01 DE020057-04
Title of Grant: FaceBase Data Management and Coordination Hub
Principal Investigator: Marazita
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 9/21/2009 - 4/30/2014
Percent Effort: 20.0 %
Total Amount Awarded: \$1,499,235

Funding Agency: National Science Foundation
Grant Number: NSF Course, Curriculum, and Laboratory Innovation
Title of Grant: Building Security In: Injecting Security throughout the Undergraduate Computing Curriculum
Principal Investigator: B. Taylor
Hochheiser Role on Grant: PI 2008-09, Consultant 2009-2011
Years Inclusive: 9/15/2008 - 8/31/2011

Percent Effort: donated
Total Direct Costs: \$399,511
Total Amount Awarded: \$399,511

Funding Agency: National Science Foundation
Title of Grant: CPATH CDP: Piloting Pathways for Computational Thinking
in a General Education Curriculum

Principal Investigator: C. Dierbach
Hochheiser Role on Grant: Co-I 2008-09, Consultant 2009-present
Years Inclusive: 9/1/2008 - 8/31/2010
Percent Effort: donated
Total Direct Costs: \$139,981
Total Amount Awarded: \$139,981

Funding Agency: Towson University Faculty Development and Research
Committee
Title of Grant: Integration of Model Organism Databases with Interactive
Visualization
Principal Investigator: N. Alkharouf
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 2006

Funding Agency: Johns Hopkins University Bloomberg School of Public Health
Title of Grant: NIOSH Education and Research Center Pilot Project
Research Training Award: Evaluating Menu Selection Task
Performance of Blind Users of Screen Readers
Principal Investigator: J. Lazar
Hochheiser Role on Grant: Co-Investigator
Years Inclusive: 2006
Total Amount Awarded: \$10,882

OTHER SCHOLARLY ACTIVITIES

Editorial Board(s)

5/2013 - Present Editorial Board Member, PeerJ
2012 - Present Reviewer, ACM Transactions on Intelligent Systems and
Technology
2012 - Present Academic Editor, PeerJ

Manuscript Reviewer

2014 - Present Reviewer, BMC Bioinformatics
2014 - Present Reviewer, European Journal of Dental Educations
2014 - Present Reviewer, Global Health Conference

9/2013 - Present	Reviewer, Journal of Biomedical Semantics
2013 - Present	Reviewer, BMC Medical Informatics and Decision Making
2013 - Present	Program Committee member, International Conference on Health Informatics
2013 - Present	Reviewer, ACM Transactions on Human-Computer Interaction
2012 - Present	Reviewer, International Journal of Human-Computer Studies
2012	Reviewer, Journal of Medical Internet Research
2012 - Present	Reviewer, International Journal of Telemedicine and Applications
2012 - Present	Reviewer, IEEE Transactions on Computer Graphics and Applications
2012 - Present	Reviewer, Information Visualization
2010 - Present	BioData Mining
2010 - Present	Journal of Medical Internet Research
2010 - Present	JAMIA
2009 - 2009	Reviewer, Advances in Bioinformatics
2009 - Present	Interacting with Computers

Grant Reviewer

3/2013 - Present	Temporary Committee Member, Veteran's Administration
2007 - Present	Proposal Review Panels, National Science Foundation

Conference Planning & Review

2014 - 2014	Member, Program Committee, Great Lakes Bioinformatics Conference
2013 - Present	Reviewer, AMIA Translational Bioinformatics/Clinical Research Informatics Summit
2013	Reviewer, ACH SIGCHI 2013
2012 - Present	Reviewer, AMIA Annual Symposium
2009 - 2010	Program Committee Member, Symposium on Usable Privacy and Security
2009 - 2010	Program Committee Member, Security and Privacy in Medical and Home-Care Systems Workshop
2008 - Present	Program Committee Member, International Symposium on Visual Computing
2007 - 2009	Member of Program Committee, IEEE Information Visualization Symposium

PATENTS

1. Lazar JK, Hochheiser H, Feng J, Sauer G, Holman JD Universally Usable Human-Interaction Proof. US 8,245,277 B2. Issued on 2012 Aug 12.

INVITED PRESENTATIONS

1. Translational Data Sharing: Informatics Challenges and Opportunities. Presented at: Magee Women's Research Institute Works in Progress Seminar; 2014 Feb 4; Pittsburgh, PA.
2. General Overview of Usability Assessment and Testing Methods. 2013 Oct 14; University of Pittsburgh School of Nursing.
3. Hochheiser H. Adventures in Translational Bioinformatics. Presented at: Texas A&M Health Science Center College of Medicine; 2013 Feb 6; Temple, Texas.
4. Hochheiser H. Biomedical Informatics and HCI: Opportunities and Challenges. Presented at: CMU Human-Computer Interaction Institute; 2011 Aug 31; Pittsburgh, PA.
5. Hochheiser H. Interactive Tools for Translational Bioinformatics: Preliminary Lessons from the FaceBase Coordination and Management Hub. Presented at: TU Wien, Seminarraum 187/2; 2010 Nov 30; 1040 Wien, Favoritenstraße 9-11, Stiege 3, 2. Stock, Gelber Bereich.
6. Desai KV, Borromeo C, Stefanko M, Schmandt LM, Pople A, Becich MJ, Murray J, Marazita ML, Hochheiser H. FaceBase: Using the Drupal Content Management Software (CMS) as a framework for OMICS/Imaging-based collaboration. Poster presented at: 2010 Pathology Informatics; 2010 Sep 19-22; Boston, MA.
7. Hochheiser H. Explorations in Universal Usability. 2009 Feb; University of Iowa.
8. Hochheiser H. Information Visualization for Biological Insight: Interactive Querying of Linear Sequence and Time Series Data. Presented at: National Cancer Institute; 2005 Apr.
9. Dynamic Query Tools for Analysis and Interpretation of Times Series Data. Presented at: U.S. Census Bureau; 2005 Mar.
10. Hochheiser H. Interactive Visualization and Exploration of Time Series and Other Linear Sequences. Presented at: University of Maryland Baltimore County, Department of Informations Systems; 2003 Oct.
11. Hochheiser H. Interactive Exploration of Gene Expression and Nucleotide Sequence Datasets. Presented at: Imaging Science and Information Systems Research Center; 2003 Apr; Georgetown University Medical Center.
12. Hochheiser H. Interactive Visualization and Querying of Linear Sequences. Presented at: Virginia Polytechnic Institute, Department of Computer Science; 2002 Dec.

OTHER PRESENTATIONS

1. Borromeo C, Espino JU, Washington NL, Martone M, Mungall CJ, Haendel MA, Hochheiser H. Toward interactive visual tools for comparing phenotype profiles. Presented at: Phenotype Day 2014, BioOntologies SIG, ISMB; 2014 Jul 12; Boston, MA.
2. Borromeo C, Washington NL, Mungall CJ, Boes R, Haendel MA, Martone M, Hochheiser H. The Monarch Initiative Phenotype Grid. Poster presented at: BioVis 2014; 2014 Jul 11-12; Boston, MA.
3. Landis-Lewis Z, Brehaut JC, Hochheiser H, Douglas GP, Crowley RS. Automated decision support for tailoring clinical audit and feedback. Poster presented at: KT

- Canada Summer Institute; 2014 Jun 9-11; Quebec City, Canada.
4. Ayvaz S, Zhu Q, Hochheiser H, Brochhausen M, Horn J, Dumontier M, Samwald M, Boyce R. Drug-Drug Interaction Data Source Survey and Linking. Poster presented at: AMIA TBI 2014; 2014 Apr 7-11; San Francisco, CA.
 5. Borromeo C, Washington NL, Mungall C, Espino JU, Haendel MA, Smedley D, Jacobsen J, Hochheiser H. Visualizing clinically similar phenotypes. Poster presented at: AMIA TBI 2014; 2014 Apr 7-11; San Francisco.
 6. Landis-Lewis Z, Hochheiser H, Douglas GP, Crowley RS. Toward a Model of Tailored Clinical Audit and Feedback. Poster presented at: AMIA Annual Symposium; 2013 Nov 16-20; Washington, DC.
 7. Liu Y, Castine M, Hong M, Hochheiser H, Chapman WW. Schema Builder: A Web-based User Interface for Authoring and Sharing Natural-Language Processing Schemas. Poster presented at: AMIA Annual Symposium; 2013 Nov 16-20.
 8. Washington NL, Brush M, Bandrowski A, Borromeo C, Eilbeck K, Espino J, Grethe J, Gupta A, Hochheiser H, Hoffman S, Lewis SE, Lui L, Martone M, Mungall CJ, Robinson P, Smedley D, Torniai C, Vasilevsky N, Haendel MA. Reducing variability in variation data using a common genotype-phenotype model. Poster presented at: American Society of Human Genetics; 2013 Oct 22-26; Boston, MA.
 9. Conrad A, Hochheiser H, Chapman W, Hwa R, Wiebe JM. Tightly-Coupled Natural Language Processing and Visualization for Electronic Medical Record Chart Review. Poster presented at: AMIA Summit on Clinical Research Informatics; 2013 Mar 20-22; San Francisco, CA.
 10. Brinkley J, Mejino J, Detwiler L, Travillian R, Clarkson M, Cox T, Heike C, Cunningham M, Hochheiser H, Shapiro L. Towards Understanding Craniofacial Abnormalities: The Ontology of Craniofacial Development and Malformation. Presented at: AMIA Summit on Clinical Research Informatics; 2013 Mar 20-22; San Francisco, CA.
 11. Washington N, Mungall C, Hochheiser H, Gupta A, Bandrowski A, Grethe J, Martone M, Vasilevsky N, Haendel M. Semantic Integration of Genotype-phenotype Resources. Poster presented at: AMIA Summit on Translational Bioinformatics; 2013 Mar 18-20; San Francisco, CA.
 12. Borromeo CD, Schleyer TK, Hochheiser H, Becich MJ. Finding Collaborators: Towards Interactive Tools for Research Network Systems. Presented at: AMIA 2012 Annual Symposium; 2012 Nov 3-7; Chicago, IL.
 13. Borromeo C, Schleyer TK, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: CTSA Informatics Key Function Committee All-Hands Meeting; 2011 Oct 12-13; Bethesda, MD.
 14. Borromeo C, Schleyer TK, Becich MJ, Hochheiser H. Finding collaborators: Towards interactive tools for research social networks. Poster presented at: Second Annual VIVO Conference; 2011 Aug 24-26; Washington, DC.
 15. Hochheiser H. Voting: The Evolving Political and Technical Landscape. Presented at: ACM Baltimore MD Chapter; 2008 Dec.
 16. Hochheiser H. Voting: The Evolving Political and Technical Landscape. Presented at: ACM Washington DC Chapter; 2008 Sep.
 17. Bioinformatics Visualization: Advanced User Interfaces for Data Exploration and Interpretation. 2006 Nov; Towson University Molecular Biology, Biochemistry, and

Bioinformatics Seminar.

18. Hochheiser H. Interactive Visualizations of Bioinformatics Data. Presented at: Towson University Molecular Biology, Biochemistry, and Bioinformatics Club; 2006 Oct.

TEACHING

Undergraduate Courses

Year(s)	Course Number & Title	Role
2/2008 - 5/2008, 9/2008 - 12/2008, 2/2009 - 5/2009	COSC 605, Introduction to Computer Science II	Professor
9/2006 - 12/2006, 2/2007 - 5/2007, 9/2007 - 12/2007	COSC 236, Introduction to Computer Science I	Professor
9/2006 - 12/2006	COSC 483, Design and Analysis of Algorithms	Professor

Graduate Courses

Year(s)	Course Number & Title	Role
8/25/2014 - 12/13/2014	BIOINF - 2121 - 29498, HCI AND EVALUATION METHODS	Primary Instructor
5/5/2014 - 8/9/2014	ISSP - 2990 - 20323, INDEPENDENT STUDY	Primary Instructor
5/5/2014 - 8/9/2014	ISSP - 2900 - 20437, GRADUATE INTERNSHIP	Primary Instructor
1/6/2014 - 4/26/2014	ISSP - 2990 - 29682, INDEPENDENT STUDY	Primary Instructor
8/26/2013 - 12/14/2013	BIOINF - 2121 - 22622, HCI AND EVALUATION METHODS	Primary Instructor
8/27/2012 - 12/15/2012	BIOINF - 2121 - 24389, Human-Computer Interaction and Evaluation	Primary Instructor
5/2010 - 8/2010, 5/2011 - 6/2011, 9/2012 - 12/2012	BIONF 2121, Human Computer Interaction and Evaluation	Instructor
2/2008 - 5/2008	COSC 605, Human-Computer Interaction	Professor
9/2007 - 12/2007	COSC 617, Distributed Information Systems: Advanced Web Development	Professor
2/2007 - 5/2007	COSC 686, Graphics: Information Visualization	Professor

MENTORING AND ADVISING

Master's Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
8/1/2012 - 7/31/2014	Soyapi Mumba PhD (expected 2016) Biomedical Informatics	Academic Advisor
8/30/2011 - 12/31/2013	Corey Stein MS (12/31/2013) Mobile applications for Dental Triage	Chair, MS Committee
1/2010 - Present	Charles Borromeo (2/2013) Research Collaboration Tools	MS Thesis Mentor
1/2010 - 4/2012	Fernando Suarez-Obando (4/2012) Craniosynostosis Syndrome Ontology	MS Thesis Mentor

Doctoral Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
2013 - Present	Arielle Fisher (expected 2017) Biomedical Informatics	Academic Advisor
8/1/2012	John Frazier PhD (expected 2016) Biomedical Informatics	Academic Advisor
9/2010 - Present	Katrina Romagnoli PhD (expected 8/2015) Post-Hospitalization Information Needs of Geriatric Patients	Research Mentor

Other Students

Year(s)	Student's Name & Department/Degree/Discipline	Role
8/2014 - 8/2015	Sergio Castro Biomedical Informatics (expected 8/2015)	Academic Advisor
2007 - 2009	Graig Sauer	Member, Doctoral

Sc.D. (12/2009)
Accessible Human-Computer Interaction
Proofs

Dissertation Committee

Postdoc or Fellow

Year(s)	Student's Name & Department/Degree/Discipline
8/1/2013 - 7/31/2014	Elizabeth Leslie Biomedical Informatics

SERVICE

Service to Internal Organizations

School/University Committees

2012 - 2013 Mentor, COSBBI Mentor

Other Committees

2/2011 - 2/2011 Committee Member, NSF/DARPA Ethical, Legal and Social Issues
of Personally Identifiable Information Study

Service to External Organizations

External Committees

2013 Program Committee, IEEE International Conference on Healthcare
Informatics 2013

2012 Program Committee, International Symposium on Visual Computing
2012

2012 - 2014 Program Committee, ACM Advanced Visual Interfaces Conference

Other Professional Activities

2004 - Present Member, US Public Policy Committee, Association of Computing
Machinery