

Jeffery Hoehl

Curriculum Vitae

University of Colorado Boulder
Department of Computer Science

University of Colorado System
Coleman Institute for Cognitive Disabilities

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EDUCATION

2008-Present

University of Colorado, Boulder

Ph.D. Candidate in Computer Science

Area: Human-Centered Computing

Thesis Proposal: *Simplifying the Web Experience for People with Cognitive Disabilities*

Advisor: Clayton Lewis

2008-2011

University of Colorado, Boulder

M.S. in Computer Science

Area: Human-Centered Computing

Preliminary Exam: *Accessing Web Accessibility: A review and analysis of the trends in web accessibility research*

Advisor: Clayton Lewis

1999-2003

University of Colorado, Boulder

B.S. in Computer Science

B.A. in Psychology

EXPERIENCE

2008-Present

Coleman Institute for Cognitive Disabilities

Research Fellow

Researched methods for improving the accessibility and usability of web technologies to improve the quality of life for people living with cognitive disabilities and assisted with general institute functions including workshops, conferences, and web presence.

2012

Google, Inc.

Software Engineering Intern

Front-end research and development for the Gmail product. Investigated and implemented features for improving accessibility of the primary web-based Gmail client for over 425 million users.

2003-2008

DefenseWeb Technologies, Inc.

Sr. Software Engineer, Tech Lead, Configuration Management Engineer, Configuration Management Supervisor

Held several technical positions building externally and internally focused software to support Department of Defense web applications for the support of military personnel and their family members.

2002-2003

Sirna Therapeutics, Inc. (formerly Ribozyme Pharmaceuticals, Inc.)

Bioinformatics Intern

Developed a drug-trial tracking database for FDA-regulated pharmaceutical research and supported software engineering, systems administration, and graphic design functions throughout the company.

RESEARCH TOPICS

Human-Computer Interaction
User Experience
Inclusive Design
Web Accessibility
Cognitive Disabilities
Intellectual and Developmental Disabilities (I/DD)
Cloud Computing

CONFERENCE PUBLICATIONS

2013

Tanis, Shea and **Jeffery Hoehl** (2013). Self-Directed Futures: Advancing Employment and Cognitive Accessibility for Students with I/DD. In *American Association on Intellectual and Developmental Disabilities (AAIDD) 137th Annual Conference*. Pittsburgh, PA, June 3-6, 2013.

2012

Hoehl, Jeffery and Clayton Lewis (2012). SimpleWebAnywhere: Mobile Web on the Desktop. In *Proceedings of the 27th Annual International Technology and Persons with Disabilities Conference (CSUN 2012)*. San Diego, CA, February 27-March 3, 2012.

2011

Hoehl, Jeffery and Gregg Vanderheiden (2011). From Clouds to Rain: Consolidating and Simplifying Online Communication Services with Easy One Communicator. In *Proceedings of the 6th International Conference on Universal Access in Human-Computer Interaction: Applications and Services. Held as Part of HCI International 2011 (UAHCI '11)*. Orlando, FL, July 9-14, 2011. Constantine Stephanidis (Ed.), Vol. Part IV. Springer-Verlag, Berlin, Heidelberg, pp. 52-61.

Sullivan, James, Clayton Lewis, and **Jeffery Hoehl** (2011). Implications of Cloud Computing for People with Cognitive Disabilities. In *Proceedings of the 6th International Conference on Universal Access in Human-Computer Interaction: Users Diversity. Held as Part of HCI International 2011 (UAHCI '11)*. Orlando, FL, July 9-14, 2011. Constantine Stephanidis (Ed.), Vol. Part II. Springer-Verlag, Berlin, Heidelberg, pp. 372-381.

Hoehl, Jeffery (2011). Leveraging Crowds and Clouds: An Intercommunity Approach to Improving Web Accessibility. *Boaster, Human Computer Interaction Consortium (HCIC)*. Asilomar, CA, June 14-18, 2011.

2009

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2009). Mobile Technology for People with Cognitive Disabilities and Their Caregivers --- HCI Issues. In *Proceedings of the 5th International Conference on Universal Access in Human-Computer Interaction: Addressing Diversity. Held as Part of HCI International 2009 (UAHCI '09)*. San Diego, CA, July 19-24, 2009. Constantine Stephanidis (Ed.). Springer-Verlag, Berlin, Heidelberg, pp. 385-394.

JOURNAL PUBLICATIONS

2013

Braddock, David, **Jeffery Hoehl**, Shea Tanis, Enid Ablowitz, and Laura Haffer (2013). The Rights of People With Cognitive Disabilities to Technology and Information Access. In *INCLUSION* 1, 2 (2013), 95-102. DOI: 10.1352/2326-6988-01.02.95

OTHER PUBLICATIONS

Newsletter Articles

2012

Hoehl, Jeffery (2012). Leveraging Crowds and Clouds: Towards an Intercommunity Approach to Improving Web Accessibility. In *Accessibility and Computing: A regular publication of the ACM Special Interest Group on Accessible Computing*. Jinjuan Heidi Feng (Ed.), January 2012, Vol. 102. ACM, New York, NY, USA, pp. 17-20.

Symposium and Workshop Papers

2012

Lewis, Clayton and **Jeffery Hoehl** (2012). Text Customization for People with Cognitive Disabilities: Opportunities. In *Proceedings of the World Wide Web Consortium (W3C) Web Accessibility Initiative (WAI) Research and Development Working Group (RDWG) Online Symposium on Easy-to-Read on the Web*. December 3, 2012. <http://www.w3.org/WAI/RD/2012/easy-to-read/>.

Whitepapers

2012

Hoehl, Jeffery and Shea Tanis (2012). Implications of Cloud Computing for Residential Supports and Community Services. Whitepaper (16 pages). Prepared for the Coleman Institute on Cognitive Disabilities, the Administration on Development Disabilities, and the Silicon Flatirons Center for Law, Technology, and Entrepreneurship.

2011

Hoehl, Jeffery and Kaleb Sieh (2011). Cloud Computing and Disability Communities: How Can Cloud Computing Support a More Accessible Information Age and Society? Whitepaper (11 pages). Prepared for the Coleman Institute on Cognitive Disabilities and the Silicon Flatirons Center for Law, Technology, and Entrepreneurship.

2009

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2009). 2009 Coleman Institute Workshop on Web Technologies for People with Cognitive Disabilities – Whitepaper Summary. Whitepaper (4 pages). Prepared for the Coleman Institute on Cognitive Disabilities.

2008

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2008). 2008 Coleman Workshop on Mobile Technologies and Web Accessibility – Whitepaper Summary. Whitepaper (8 pages), Prepared for the Coleman Institute on Cognitive Disabilities.

Technical Reports

2010

Hoehl, Jeffery (2010). Are Attractors Attractive? An Analysis of Chaotic and Traditional Photograph Composition Techniques. In *Projects in Chaotic Dynamics*, University of Colorado Department of Computer Science Technical Report CU-CS 1060-10 (www.cs.colorado.edu/publications), pp. 91-98.

POSTERS

2013

Hoehl, Jeffery (2013). Leveraging Crowds and Clouds: Towards an Intercommunity Approach to Improving Web Accessibility. Presented at the *University of Colorado Boulder Computer Science Department Colloquium* (Boulder, CO, September 5, 2013).

2011

Hoehl, Jeffery and Clayton Lewis (2011). Mobile Web on the Desktop: Simpler Web Browsing. In *The Proceedings of the 13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '11)*. Dundee, Scotland, October 24-26, 2011. ACM, New York, NY, USA, pp. 263-264.

Hoehl, Jeffery (2011). Leveraging Crowds and Clouds: Towards an Intercommunity Approach to Improving Web Accessibility. Presented at the *13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '11)* as part of the Doctoral Consortium (Dundee, Scotland, October 24-26, 2011).

Hoehl, Jeffery (2011). SimpleWebAnywhere: Mobile Web on the Desktop. Presented at the *2011 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, October 13, 2011).

Hoehl, Jeffery and Gregg Vanderheiden (2011). Easy One Communicator: Consolidating and Simplifying Online Communication Services. Presented at the *2011 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, October 13, 2011).

Lewis, Clayton, James Sullivan, **Jeffery Hoehl**, and Shea Tanis (2011). Implications of Cloud Computing for Residential Supports and Services – 2011 Coleman Institute for Cognitive Disabilities and Silicon Flatirons Pre-Conference Roundtable. Presented at the *2011 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, October 13, 2011).

2010

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2010). Implications of Cloud Computing for People with Cognitive Disabilities - 2010 Coleman Institute Workshop Results. Presented at the *2010 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, October 21, 2010).

2009

Hoehl, Jeffery (2009). Coleman Institute Conference on Twitter. Presented at the *2009 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, November 5, 2009).

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2009). Web Technologies and People with Cognitive Disabilities – 2009 Coleman Institute Workshop Results. Presented at the *2009 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, November 5, 2009).

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2009). Coleman Institute for Cognitive Disabilities Student Design Awards for Technologies to Benefit People with Cognitive Disabilities. Presented at the *2009 Coleman Institute Conference on Cognitive Disability and Technology* (Westminster, CO, November 5, 2009).

2008

Lewis, Clayton, James Sullivan, and **Jeffery Hoehl** (2008). Mainstream ICT and People with Cognitive Disabilities - 2008 Coleman Institute Workshop Results. Presented at the *2008 Coleman Institute Conference on Cognitive Disability and Technology* (Boulder, CO, October 16, 2008).

PRESENTATIONS

2014

An Overview of Web Accessibility. Presented at University of Colorado, Boulder, Department of Computer Science Graduate Student Colloquium (Boulder, CO, April 9, 2014).

2013

Cognitive Accessibility on the Web. Presented at Google Boulder for Disability Awareness Month (Boulder, CO, October 18, 2013).

Self-Directed Futures: Advancing Employment and Cognitive Accessibility for Students with I/DD. Presented at the American Association on Intellectual and Developmental Disabilities (AAIDD) 137th Annual Conference (Pittsburgh, PA, June 3-6, 2013).

Improving Gmail Accessibility. Presented at University of Colorado, Boulder, Department of Computer Science Graduate Student Colloquium (Boulder, CO, February 19, 2013).

2012

SimpleWebAnywhere: Mobile Web on the Desktop. Presented at the 27th Annual International Technology and Persons with Disabilities Conference (CSUN 2012) (San Diego, CA, February 27-March 3, 2012).

2011

From Clouds to Rain: Consolidating and Simplifying Online Communication Services with Easy One Communicator. Presented at HCI International 2011 (Orlando, FL, July 9-14, 2011).

Leveraging Crowds and Clouds: Towards and Intercommunity Approach to Improving Web Accessibility. Presented at ASSETS 2011 Doctoral Consortium (Dundee, Scotland, October 23, 2011).

2009

Mobile Technology for People with Cognitive Disabilities and Their Caregivers --- HCI Issues. Presented at HCI International 2009 (San Diego, CA, July 23, 2009).

INVITED PARTICIPATION

2013

Closing Plenary Host and Speaker

The Arc's 2013 National Convention
Bellevue, WA. August 2-5, 2013.

Invited Graduate Student Attendee

Human Computer Interaction Consortium (HCIC)
Asilomar, CA. June 23-27, 2013.

2011

Doctoral Consortium Participant

International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
Dundee, Scotland. October 23, 2011.

Invited Graduate Student Attendee

Human Computer Interaction Consortium (HCIC)
Asilomar, CA. June 14-18, 2011

2010**Invited Graduate Student Attendee**

Human Computer Interaction Consortium (HCIC)
Snow Mountain Ranch, CO. February 24-28, 2010

Invited Roundtable Host

Coleman Institute Conference on Cognitive Disability and Technology
Westminster, CO. October 21, 2010

Discussion group on social networking for people with cognitive disabilities, their families, and caregivers.

2009**Invited Roundtable Host**

Coleman Institute Conference on Cognitive Disability and Technology
Westminster, CO. November 5, 2009

Discussion group on social networking for people with cognitive disabilities, their families, and caregivers.

Invited Photography Contributor

A Public Space, Paul Druecke
San Diego, CA. 2009

A public art installation incorporating curated photography and essay selections exhibited in multiple cities.

TEACHING**Spring 2014****CSCI 3002: Human-Centered Computing Foundations**

Guest Lecturer – 1 session
Professor Clayton Lewis

Fall 2013**CSCI 5919: Human Computer Interaction: Survey & Synthesis**

Teaching Assistant
Professor Leysia Palen

Spring 2012**CSCI 5919: Human Computer Interaction: Survey & Synthesis**

Guest Lecturer – 1 session
Professor Leysia Palen

Fall 2011**CSCI 4839/5839: User-Centered Design**

Teaching Assistant
Professor Leysia Palen

Fall 2010**CSCI 4839: User-Centered Design**

Teaching Assistant
Professor Leysia Palen

CSCI 3112: Human Centered Computing Professional Development

Guest Lecturer – 2 sessions
Professor Clayton Lewis

CSCI 1000: Computer Science as a Field of Work and Study

Guest Lecturer – 2 sessions
Professor Clayton Lewis

Spring 2010**CSCI 4839: User-Centered Design**

Teaching Assistant
Professor Leysia Palen

Fall 2009

CSCI 1000: Computer Science as a Field of Work and Study

Guest Lecturer – 1 session

Professor Clayton Lewis

CSCI 1300: Introduction to Computer Science

Guest Lecturer – 3 sessions

Professor Clayton Lewis

Fall 2008

CSCI 1000: Computer Science as a Field of Work and Study

Guest Lecturer – 1 session

Professor Clayton Lewis

SERVICE

Committees

2014

CU Boulder – Computer Science Department: Faculty Search Committee Graduate Student Representative

2012

ASSETS 2012 Conference – Organizing Committee: Local Arrangements Chair

CU Boulder – Computer Science Department: Faculty Search Committee Graduate Student Representative

2011-Present

CU Boulder – Computer Science Department: Graduate Social Committee

2009-Present

Coleman Institute Annual Conference – Pre-Conference Workshop: Organizing Committee

Reviewing

2014

22nd European Conference on Information Systems (ECIS).

2013

7th International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health).

2012

ACM Transactions on Accessible Computing (TACCESS).

2011

Coleman Institute for Cognitive Disabilities Student Design Awards.

2009

International Conference on Communities and Technologies (C&T).

ORGANIZATIONAL
ASSOCIATIONS

2008-Present

Association of Computing Machinery

Special Interest Group: Computer-Human Interaction (SIGCHI)

Special Interest Group: Accessible Computing (SIGACCESS)

FELLOWSHIPS AND
HONORS

2009

Graduate Student Research Community Development Award Recipient

2008-2013

Coleman Institute Graduate Fellow

1999-2003

Oscar L. Robertson Scholarship

J. Ranald Fox Scholarship

General Engineering Scholarship

Six-time Dean's List Award Recipient

MENTORING

Summer 2011

Damon Jones

Jackson State University

Web development and assistive technology

Sarai Price

Jackson State University

Web development and assistive technology

Fall 2010-Spring 2011

Perry Taga

Broomfield High School

User interface development and testing