

Lydia B. Chilton Curriculum Vitae

Assistant Professor
Columbia University Computer Science Department
chilton@cs.columbia.edu
<http://cs.columbia.edu/~chilton>

Education

- 2016-2017 **Stanford University**, Post-Doc in Computer Science
Visual Blends for Journalism and Print Media
PI: Prof. Maneesh Agrawala
- 2009 - 2016 **University of Washington**, PhD in Computer Science
Dynamic Crowd Algorithms for Complex Problems
Advisors: James A. Landay (Stanford) and Daniel S. Weld (UW)
- 2009 **MIT**, MEng Electrical Engineering and Computer Science
Seaweed: A Web Application for Designing Economic Games
Advisor: Robert C. Miller
- 2007 **MIT**, S.B. Electrical Engineering and Computer Science
- 2006 **MIT**, S.B. Economics

Publications

- 2019 *VisiBlends: An Interactive Pipeline for Creating Visual Blends*
Lydia B. Chilton, Savvas D. Petridis, Maneesh Agrawala. CHI 2019.
- 2019 *Metaphoria: An Algorithmic Companion for Metaphor Creation.*
Katy Gero, **Lydia B. Chilton**. CHI 2019.
- 2019 *MultiTalk: Multi-Turn Argumentation for Accurate Crowdsourcing*
Jim Chen, Jonathan Bragg, **Lydia B. Chilton**, Daniel S. Weld. CHI 2019.
- 2016 *MicroTalk: Using Argumentation To Improve Crowdsourcing Accuracy*
Ryan Drapeau, **Lydia B. Chilton**, Jonathan Bragg, Daniel S. Weld
Full Paper at HCOMP 2016
- 2014 *Frenzy: Collaborative Data Organization for Creating Conference Sessions*
Lydia B. Chilton, Juho Kim, Paul Andre, Felicia Cordeiro, James A. Landay, Daniel S. Weld, Steven P. Dow, Robert C. Miller, Haoqi Zhang.
Full Paper at CHI 2014.
Honorable Mention for Best Paper
- 2013 *Community Clustering: Leveraging an academic crowd to form coherent conference sessions.*

Paul Andre, Haoqi Zhang, Juho Kim, **Lydia B. Chilton**, Steven P. Dow, and Robert C. Miller.
HCOMP 2013. **Honorable Mention for Best Paper**

- 2013 *Cobi: A community-informed conference scheduling tool.*
Juho Kim, Haoqi Zhang, Paul André, **Lydia B. Chilton**, Wendy Mackay, Michel Beaudouin-Lafon, Robert C. Miller, and Steven P. Dow.
Full paper at UIST 2013.
- 2013 *Cascade: Crowdsourcing Taxonomy Creation*
Lydia B. Chilton, Greg Little, Darren Edge, Daniel S. Weld, James A. Landay. Full Paper at CHI 2013.
- 2011 *Addressing Users' Queries directly in the Web Search Results*
Lydia B. Chilton, Jaime Teevan
Full paper at WWW 2011.
- 2010 *Task search in a human computation market*
Lydia B. Chilton, John J. Horton, Robert C. Miller, Shiri Azenkot
Full paper at KDD-HCOMP 2010.
- 2010 Exploring Iterative and Parallel Human Computation Processes
Greg Little, **Lydia B. Chilton**, Max Goldman, Robert C. Miller.
Full paper at KDD-HCOMP 2010.
- 2010 *TurKit: Human Computation Algorithms on Mechanical Turk*
Greg Little, **Lydia B. Chilton**, Max Goldman, Robert C. Miller.
Full paper at UIST 2010.
- 2010 *The Labor Economics of Paid Crowdsourcing*
John J. Horton, **Lydia B. Chilton**
Full paper at ACM E-Commerce 2010.
- 2009 *Seaweed: A web application for designing economic games.*
Lydia B. Chilton, Clayton T. Sims, Max Goldman, Greg Little, and Robert C. Miller. SIGKDD HCOMP 2009.
- 2006 *Tabulator: Exploring and analyzing linked data on the semantic web.*
Tim Berners-Lee, Yuhsin Chen, **Lydia B. Chilton**, Dan Connolly, Ruth Dhanaraj, James Hollenbach, Adam Lerer, and David Sheets.
Semantic Web User Interaction Workshop, 2006.
- 2010 *Why We Customize the Web.*
Lydia B. Chilton, Robert C. Miller, Greg Little, and Chen-Hsiang Yu.
Chapter In A. Cypher, M. Dontcheva, T. Lau, and J. Nichols, eds., *No Code Required: Giving*

Users Tools to Transform the Web, Elsevier, 2010.

- 2010 *Rewriting the Web with Chickenfoot*
Robert C. Miller, Michael Bolin, **Lydia B. Chilton**, Greg Little, Matthew Webber, and Chen-Hsiang Yu.
Chapter In A. Cypher, M. Dontcheva, T. Lau, and J. Nichols, eds. *No Code Required: Giving Users Tools to Transform the Web*, Elsevier, 2010.

Teaching

- 2018 **Columbia** COMS 6998-8 Advanced Web Design Studio
- 2018 **Columbia** COMS W4170 User Interface Design
- 2017 **Stanford** CS 247
Co-instructor Spring 2017. Other instructor: Prof. Maneesh Agrawala
- 2015 **Stanford** CS 376 Research Topics in Human-Computer Interaction
TA Spring 2015. Instructor: Prof. Michael Bernstein
- 2015 **UW** CSE 473 Undergraduate Artificial Intelligence
TA Spring 2012. Instructor: Prof. Dan Weld
- 2012 **UW** CSE 546 Graduate Machine Learning (UW)
TA Winter 2012. Instructor: Prof. Luke Zettlemoyer
- 2008 - 2010 **MIT** 6.470 IAP Web Programming Competition
In 2008, I established 6.470, a month-long web programming class and competition for MIT students. I was the chairman in 2008 and 2009, and a staff member and instructor for 2010. The class serves approximately 100 students with a \$40,000 annual budget from sponsor contributions.
- 2009 **MIT** 6.831 User Interface Design and Implementation
TA Spring 2009. Instructor: Prof. Rob Miller
- 2008 **MIT** 1.00 Introduction to Java Programming for Engineers
Head TA Fall 2008, TA Spring 2008 Instructor: George Kocur
- 2007 **MIT** 6.UAT Communications for all EECS Majors
TA Fall 2007 Instructor: Tony Eng

Grants

- 2015 The Brown Institute for Media Innovation: Magic Grant
\$110k
PI: **Lydia B. Chilton**

2013 **Facebook** Fellowship

2012 **MIT** EECS Rising Academic Stars Workshop

2009 **UW** Denice Denton Scholarship

2009 **Google** Anita Borg Scholarship

Awards & Recognition

2009 **MIT** Charles & Jennifer Johnson MEng Thesis Award

2009 **MIT** Special EECS Department Recognition Award for starting 6.470

2007 **MIT** 6.UAT – Communications for EECS students
Best Overall Presentations

2007 **MIT** 6.170 Software Engineering – Best User Interface Award

2005 **MIT** Burchard Scholar in the Humanities

2005 **MIT** Undergraduate Economics Research Journal publication of my economics undergraduate thesis

Invited Talks

2013 **Stanford** HCI Seminar

Title: *Key Difference between Crowdsourcing and Communitysourcing*
November 2013

2014 **ICSE** Workshop on Crowdsourcing and Software Engineering in
Hyderabad, India

Title: *Crowdsourcing Complexity: Lessons for Software Engineering*
June 2014

2014 **UC Berkeley** HCI Seminar

Title: *From Crowdsourcing to Communitysourcing*
February 2014

2012 **MIT** EECS Rising Academic Stars Workshop

Title: *Cascade: Crowdsourcing Taxonomy Creation*
November 2012

2012 **NerdNite Seattle**

Title: *Why are jokes funny? And how do we make them? A citizen science approach to discovering the hidden structure of jokes.*
October 2012

- 2005 **MIT** Center for Energy and Environmental Policy Research Annual Conference
Title: *Emission Market Efficiency of the OTC NOx Budget Trading Program.*
- 2004 **MIT** Center for Energy and Environmental Policy Research Annual Conference
Title: *Emission Allocation Methods in the OTC NOx Budget Trading Program.*
- Service**
- 2019 **UIST** Program Committee Member
- 2018-2019 **CHI** Program Committee Member
- 2014 - 2016 **COBE** Program Committee Member
Workshop on Crowdsourcing and Online Behavioral Experiments
- 2013 - 2017 **HCOMP** Program Committee Member
AAAI Conference on Human Computation and Crowdsourcing
- 2015 **HCOMP** 2015 Publicity Chair
- 2013-2013 Organizer of **CrowdCamp** 2013 at HCOMP 2013
<http://crowdresearch.org/crowdcamp/>
- Organizer of **CrowdCamp** 2013 at CSCW 2013
<http://crowdresearch.org/crowdcamp-cscw2013/>
- Co-founder and Co-editor of the CrowdResearch community website
<http://crowdresearch.org/>
- CHI** Co-organizer for CHI 2011 Workshop on Crowdsourcing and Human Computation (May 8, 2011)
- CHI** 2011 Webmaster
<http://chi2011.org/>

