

Laura Devendorf

ATLAS Institute & Department of Information Science
207A, Roser ATLAS Building
University of Colorado Boulder
1125 18th St. 320 UCB
Boulder CO 80309

email: laura.devendorf@colorado.edu
portfolio url: artfordorks.com
lab url: unstable.design
phone: 303.735.4608

EDUCATION

- 2016 **University of California, Berkeley**
PhD, School of Information with designated emphasis in New Media
Dissertation: Strange and Unstable Fabrication
Committee: Kimiko Ryokai (chair), Jenna Burrell, Rosemary Joyce
- 2011 **University of California, Santa Barbara**
BS, Computer Science, Honors
courses: data visualization, cryptography, programming languages.
- 2006 **University of California, Santa Barbara**
BA, Studio Art, Honors
courses: visual literacy, advanced drawing, and printmaking.

PUBLICATIONS

Refereed Conference Papers Noura Howell, [Laura Devendorf](#), Tomás Vega Gálvez, Rundong (Kevin) Tian, Kimiko Ryokai. 2018. “Tensions of Data-Driven Reflection: A Case Study of Real-Time Emotional Biosensing.” To appear in *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI '18).

Jen Liu, Daragh Byrne, [Laura Devendorf](#). 2018. “Design for Collaborative Survival: An Inquiry into Human-Fungi Relationships.” To appear in *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI '18).

[Laura Devendorf](#) and Daniela K. Rosner. 2017. “Beyond Hybrids: Metaphors and Margins in Design.” In *Proceedings of the 2017 Conference on Designing Interactive Systems* (DIS '17). ACM, New York, NY, USA, 995-1000.

[Laura Devendorf](#), Abigail De Kosnik, Kate Mattingly, Kimiko Ryokai. 2016. “Probing the Potential of Post-Anthropocentric 3D Printing.” In *Proceedings of the 2016 Conference on Designing Interactive Systems* (DIS '16). ACM, New York, NY, USA, 170-181. **Best Paper Award**

Noura Howell, [Laura Devendorf](#), Rundong Tian, Tomas Vega, Nan-Wei Gong, Ivan Poupyrev, Eric Paulos, Kimiko Ryokai. 2016. “Biosignals as Social Cues.” In *Proceedings of the 2016 Conference on Designing Interactive Systems* (DIS '16). ACM, New York, NY, USA, 865-870.

[Laura Devendorf](#), Joanne Lo, Noura Howell, Doris Lee, Nan-Wei Gong, Emre Karagozler, Ivan Poupyrev, Eric Paulos, Kimiko Ryokai. “I Don't Want to Wear a Screen': Probing Perceptions of and Possibilities for Dynamic Displays on Clothing.” In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems* (CHI '16). ACM, New York, NY, USA, 6028-6039. **Best Paper Award**

[Laura Devendorf](#) and Kimiko Ryokai. “Being the Machine: Reconfiguring Agency and Control in Hybrid Fabrication.” In *Proceedings of the 2015 CHI Conference on Human Factors in Computing Systems* (CHI '15). ACM, New York, NY, USA, 2477-2486. **Best Paper Honorable Mention Award**

PUBLICATIONS CONTINUED

Extended
Abstracts

Laura Devendorf and Kimiko Ryokai. “Redeform: Participatory 3D Printing in Public Places.” In *Proceedings of the Ninth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '15)*. ACM, New York, NY, USA, 423-424.

Laura Devendorf and Kimiko Ryokai. “AnyType: Provoking Reflection and Exploration with Aesthetic Interaction.” In *Proceedings of the 2013 CHI Conference on Human Factors in Computing Systems (CHI '13)*. ACM, New York, NY, USA, 1041-1050. **Honorable Mention Award**

Laura Devendorf and Daniela Rosner. “Reimagining Digital Fabrication as Performance Art.” In *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '15)*. ACM, New York, NY, USA, 555-566.

Laura Devendorf and Kimiko Ryokai. “Being the Machine: Exploring New Modes of Making.” In *Proceedings of the 2014 companion publication on Designing Interactive Systems (DIS Companion '14)*. ACM, New York, NY, USA, 33-36.

Laura Devendorf. “Making Art and Making Artists.” In *Proceedings of the 2014 companion publication on Designing Interactive Systems (DIS Companion '14)*. ACM, New York, NY, USA, 33-36.

Laura Devendorf and Kimiko Ryokai. “AnyType: Creating Typography from Anything, Anywhere.” In *Proceedings of the 2012 ACM Conference on Ubiquitous Computing (UbiComp '12)*. ACM, New York, NY, USA, 546-546.

Workshops
organized

Kristina Andersen, Laura Devendorf, James Pierce, Daniela K. Rosner, Ron Wakkary. “Disruptive Improvisation: Making Use of Non-Deterministic Art Practices in HCI ” To appear in *Proceedings of the 2018 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '18)*.

Stefanie Mueller, Laura Devendorf, Stelian Coros, Yoichi Ochiai, Madeline Gannon, Patrick Baudisch. “CrossFAB: Bridging the Gap between Personal Fabrication Research in HCI, Computer Graphics, Robotics, Art, Architecture, and Materials Science.” In *Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16)*. ACM, New York, NY, 3431-3437.

OTHER PUBLICATIONS

Casey Fiesler, William Aspray, Lecia Barker, Jed Brubaker, Laura Devendorf, Brian Keegan, Leysia Palen, Michael Paul, Danielle Szafir, Ricarose Roque, Rick Robinson, Amy Volda, and Stephen Volda. 2017. Information science at CU Boulder. *interactions* 24, 4 (June 2017), 18-21.

Laura Devendorf. 2016. What you’ve been reading? *interactions* 23, 4 (June 2016), 14-15.

Laura Devendorf. 2016. “Anatomy of a Cyborg 3D Printer.” In *The 3D Additivist Cookbook*. Curated by Morehshin Allahyari and Daniel Rourke.

WORK EXPERIENCE

2017-
present **Assistant Professor**, ATLAS Institute & Department of Information Science,
University of Colorado, Boulder.

2013 - 2016 **Graduate Student Researcher**, UC Berkeley, CA
Prof. Kimiko Ryokai, School of Information, Summer 2013, Summer 2014, Spring 2015 - Fall 2015
Developed and studied interactive prototypes
Prof. Greg Niemeyer, Art Practice & Ron Real, Architecture, Summer 2004
Developed syllabus and materials for a course on urban prototyping entitled “Sensing Cityscapes.”

WORK EXPERIENCE CONTINUED

- 2014-2015 **Artist in Residence**, Autodesk, San Francisco, CA
Developed novel projects that make use of Autodesk's Pier 9 fabrication workshops
- 2012 **Intern**, Otherlab, San Francisco, CA
Developed novel computer aided design and construction activities.
- 2009-2011 **Program and Events Coordinator**, Interdisciplinary Humanities Center,
University of California Santa Barbara, CA
I coordinated speakers and events according to the IHC's yearly themes.
- 2010-2011 **Undergraduate Research Assistant**, Santa Barbara, CA
Prof. Tobias Hollerer, Computer Science, 2011.
Designed and developed visualization tools for topic models and cyber security applications.
Prof. John Gilbert, Computer Science, 2010.
Designed and developed an interactive application for undergraduate scientific computing courses.
- 2005-2009 **Graphic Designer and Lead Developer**, Stewart+Brown, Ventura, CA
Stewart+Brown is an independent clothing label specializing in organic and sustainable fashion. I developed the online store and custom web-based software to streamline production tracking, designed t-shirt graphics and promotional materials, and aided in producing garment samples.

TEACHING

- 2017 **ATLS 4529/5529: Critical Technical Practice**
A design research course I developed and taught to undergraduate and graduate students.
- 2017 **INFO 1121: Interactions Studio and Seminar**
An undergraduate introduction to interaction design.
- 2013-2014 **Graduate Student Instructor**, University of California, Berkeley
Sensing Cityscapes, Prof. Greg Niemeyer (Art) & Prof. Ron Rael (Architecture), Fall 2014
Developed course content, led introductory lessons on physical prototyping, and aided in the design and development of sensors deployed in urban environments.
- Theory and Practice of Tangible User Interfaces, Prof. Kimiko Ryokai, Spring 2013, Fall 2013, Fall 2014*
Updated course content, assisted students in lab work, graded assignments, co-led critiques, developed introductory programming workshops and lessons on fabrication tools and techniques.
- Technologies for Creativity and Learning, Prof. Kimiko Ryokai, Spring 2014*
Updated reading list, aided in the development of student-led reading discussions and class activities and graded assignments.
- 2013-2015 **Invited Lecturer**, University of California, Berkeley
Being the Machine, Meaning and Making, Fall 2015
Department of Art Practice, UC Berkeley
- Social Research Methods in Design, Social and Organizational Issues of Information, Spring 2013*
School of Information UC Berkeley
- Quick and Dirty Visualization Techniques. Spring 2013*
Heath Policy and Management Studies Department Seminar, UC Berkeley

INVITED TALKS & PANELS

- 2017 *Unstable Technology for Unstable Futures.*
“Designing Futures Panel” at European Forum Alpbach Technology Symposium.
- 2016 *Usable/Unstable: Making Space for Resistance in Design*
ATLAS Institute University of Colorado, Boulder
- 2015 *Crafted Conversations*
Hosted by the American Crafts Council, Museum of Craft and Design, San Francisco, CA
- 2015 *Slow and Unpredictable Prototyping*
Data Clay Symposium, California College of the Arts, San Francisco CA.
- 2014 *Being the Machine: My Journey to Become a Human 3D Printer*
Autodesk’s Pier 9 Workshop, San Francisco, CA
- 2014 *The Algorithm Multiple, the Algorithm Material*
Contours of Algorithmic Life Symposium. UC Davis (with Elizabeth Goodman)
- 2013 *AnyType: Social Meaning in DIY Typefaces*
Digital Society in Context , New Media Working Group, Berkeley, CA.

ART EXHIBITIONS

The Emerging Goddess. (with Emilia Louisa Pucci) Intersections: A conference exploring collaboration in textile design research. 2017.

3D Printing En Plein Air. Autodesk Artist in Residence Show, San Francisco, CA. 2016.

Being the Machine. Autodesk Artist in Residence Show, San Francisco, CA. 2015.

Redeform, TEI Arts Track, Stanford University, CA (Juried) 2015.

AnyType, Place by Design, SXSW Eco, Austin TX (Juried). 2014.

AnyType, Urban Prototyping Festival, San Francisco, CA (Juried). 2013.

Net in Ruins, Super Santa Barbara 2: Net Neutrality. Santa Barbara CAF, Santa Barbara, CA. 2011.

Canned Laughter, Fine Art Adoption Network, Pocket Utopia, New York, NY. 2008.

Canned Laughter, Anthology, Santa Barbara Contemporary Arts Forum, Santa Barbara, CA. (Juried). 2007.

SELECT PRESS

“Maschinen: Chaos erwünscht” (Machines: “Chaos” Desired). Wissen Aktuell, Austrian National Radio (ORF). June 2017.

“Color-Changing Threads Might One Day Turn Your T-Shirt Into a Screen.” Gizmodo.com. May 2016

“Artists in Residence Give High Tech Projects a Human Touch.” All Things Considered, National Public Radio. April 2015.

“PhD student's project 3D Print En Plein Air allows you to 3D print in nature.” 3Ders.com. Nov. 2015

PROFESSIONAL ACTIVITIES

Program Committee Member

Pictorials Chair, ACM SIGCHI Conference on Designing Interactive Systems, 2018
Art Chair, Symposium on Computational Fabrication, 2018

PROFESSIONAL ACTIVITIES CONTINUED

Associate Chair

ACM SIGCHI Conference on Designing Interactive Systems, 2017

Journal Reviewer

Design Issues, Digital Creativity, Interacting with Computers