

JEN LIU

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Research interests: human-computer interaction, sustainable interaction design, science and technology studies, wearable technology, environmental and social justice

EDUCATION:

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| starting Fall 2018 | Ph.D candidate in Information Science
Cornell University, Ithaca, NY |
| 2015 – 2017 | Master in Tangible Interaction Design, 4.0
Carnegie Mellon University, Pittsburgh, PA |
| 2008 – 2012 | BFA Fiber, summa cum laude 3.86
Maryland Institute College of Art, Baltimore, MD |

RESEARCH EXPERIENCE:

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| 2017- 2018 | Graduate Research Assistant, Unstable Design Lab
University of Colorado Boulder, CO <ul style="list-style-type: none">Conduct smart textiles and human-computer interaction research under Dr. Laura Devendorf |
| Summer 2016 | Design and Engineer Intern
Welspun USA, Pittsburgh, PA & New York, NY <ul style="list-style-type: none">Research, prototype and develop proof of concept for smart textile product |
| 2015 – 2017 | Research Assistant, Learning Media Design Center
Carnegie Mellon University, Pittsburgh, PA <ul style="list-style-type: none">Research work under NSF grant #1623969, “Seeing to Learn, Learning to See” for P.I. Marti Louw. |

TEACHING EXPERIENCE:

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| 2017 - 2018 | Guest Lecturer , University of Colorado, Boulder
Fall 2017: Designing for Curiosity (ATLS 5519)
Instructor: Hyunjoo Oh
Spring 2018: Physical Computing Interfaces (ATLS 4519)
Instructor: Dr. Daniel Leithinger <ul style="list-style-type: none">Presented methods and materials for working with smart textiles, along with teaching hands-on demo |
| 2015 - 2017 | Co-Instructor , Carnegie Mellon University
<i>Soft Fabrication Skills Micro-Course</i> (IDEaTe 99-352)
Co-Instructed with Prof. Susan Finger, IDEaTe Network
Spring 2016, Fall 2016, Spring 2017 <ul style="list-style-type: none">Developed curriculum, syllabus, demos and discussions for 1-unit course on textile skills for students across campus. |

- Lead discussions and demos on textile techniques
- 2015 **Graduate Student Instructor**, Carnegie Mellon University
Hacking the Music World (Music 57345)
 Prof. Jesse Stiles, School of Music
 Fall 2015
- Updated course material and assisted students on coding and videography work
- 2014 **Guest Lecturer**, Maryland Institute College of Art
Smart Textiles, Spring 2014
 Prof. Olivia Robinson
- Presented wearable technology projects and introduced materials and methods in working with interaction design and textile techniques

PROFESSIONAL EXPERIENCE:

- 2013 – 2015 **DIY Manager**
 Maryland Science Center, Baltimore, MD
- Create STEM and design based educational programming and workshops for maker space in a museum setting
- 2012 – 2014 **Workshop Leader/Maker-In-Residence**
 FutureMakers, Baltimore, MD/ DC area
- Lead STEM, design and art based workshops and classes for K-12 students
 - Create curriculum and syllabus for workshops

PUBLICATIONS:

McDonald, J.*, Zhao S. *, **Liu, J.***, Riviera, M. “MaxiFab: Applied Fabrication to Advance Menstrual Technologies”. DIS Works in Progress: Proceedings of the 2018 Designing for Interactive Systems Conference (DIS). Hong Kong, China.

*contributed equally

Liu J. “From Commodity to Personhood: The Role of Natural Resources in a Post-Capitalist System”. Position paper for “*Grand Visions*” For a *Post-Capitalist HCI* workshop. CHI ’18. Montreal, Canada.

Liu, J., Byrne, D., Devendorf, L., “Designing for Collaborative Survival: An Inquiry into Human-Fungi Relationships”. CHI ’18 Proceedings. Montreal, Canda. **Best Paper Award.**

Liu, J. “Data HarVest: Physical and Digital Data Collection for Citizen Science”. ISEA ’17 Proceedings. Manizales, Colombia.

Liu, J. “Field Computing: Wearable Devices for Citizen Science Applications”. TEI Works in Progress: Proceedings of the 2017 Tangible, Embedded and Embodied Interaction (TEI) Conference, Yokohama, Japan.

OTHER PUBLISHED MATERIALS:

Jen Liu and Camille Baumann-Jaeger. “Dissenting Jabots”. Disobedient Electronics. Ed. Garnet Hertz. Vancouver. 2017.

Jen Liu. *Butt Blinkers*. Featured project in Make: Wearable Electronics. Sebastopol: Maker Media. 2014.

HONORS, GRANTS & AWARDS:

- 2018 **Partial NEST Grant awardee with [Laura Kim](#),**
University of Colorado, Boulder, CO
- 2017 **First-year Graduate Fellowship,**
University of Colorado, Boulder, CO
- 2016 **Travel Scholarship,**
Carnegie Mellon University, Pittsburgh, PA
- 2016 **FRFAF Microgrant,**
Studio for Creative Inquiry, Pittsburgh, PA
- 2015 **Graduate studies scholarship,**
Carnegie Mellon University, Pittsburgh, PA
- 2013 **30 Creative Minds Under 30,**
Maryland Art Place, Baltimore, MD
- 2012 **Fiber Department Recognition Award,**
MICA, Baltimore, MD
- 2011 **Nominee: Windgate Fellowship**
Nancy Lee Rhodes Robert '39 Scholarship,
MICA, Baltimore, MD
- 2010 **Achievement Award,**
MICA, Baltimore, MD
- 2008 **Presidential Scholar in the Arts**
The Scholastic Arts and Writing Awards
Gold Key Recognition, Photography Portfolio
National Silver Level, Photography Portfolio
Maryland Distinguished Scholar in the Arts

PROFESSIONAL ACTIVITIES:

- 2018 **Invited Speaker**
MALfunction #9: Reflections, Media Archaeology Lab
University of Colorado, Boulder, Colorado
- 2017 **Reviewer**
ACM Conference on Human Factors in Computing Systems (CHI)
ACM Conference on Designing Interactive Systems (DIS)
- 2016 **Selection Committee**
Teaching Innovation Award

Carnegie Mellon University, Pittsburgh, PA

- 2016 **Invited Presenter**
Soft Fabrication: Skills-based Micro-Course
Teaching and Learning Summit, Carnegie Mellon University, Pittsburgh, PA
- 2015 **Invited Participant**
a2ru Emerging Creatives Student Summit
University of Michigan, Ann Arbor, MI
- 2014 **Workshop Leader**
Soft Circuits Public Workshop
Ripple Gallery, Rockville, MD
- 2014 **Panelist**
Textile Futures
Studio Art Quilt Association, Washington, D.C.
- 2014 **Workshop Leader**
Paper Circuits workshop for Art Educators
Maryland Art Education Association, Ellicott City, MD

SELECTED RESIDENCIES:

- 2017 Crafternoon Artist Residency, Assemble, Pittsburgh, PA
- 2016 Artist-in-Residence, Iowa Lakeside Laboratory, Milford, IA
- 2013 Interactive Telecommunications Program Fellow, New York University, NY
- 2010 Bread and Puppet Apprenticeship, Glover, VT

SELECTED GROUP EXHIBITIONS:

- 2018 *I'M NOT WITH HIM*, Future Tenant Gallery, Pittsburgh, PA
- 2017 *S17 Code Lab Exhibit*, Most Wanted Gallery, Pittsburgh, PA
- 2016 *It Worked Just a Second Ago*, Unblurred, Pittsburgh, PA
Sixth Annual Pittsburgh Zine Fair, Union Project, Pittsburgh, PA
- 2015 *Get Small 3*, Turpentine Gallery, Oakland, CA
Open Space 5th Annual Prints and Multiples Fair, Baltimore, MD
- 2013 *Ripple*, VisArts Gallery, Rockville, MD
Open Space 4th Annual Prints and Multiples Fair, Baltimore, MD
- 2012 *Digital Legacies of the Avant-Garde*, The New School, NYC, NY
Small Wonders, Circle Gallery, Annapolis, MD
Cloth of Action, Middendorf Gallery, Baltimore, MD
Power Suits, School 33, Baltimore, MD
Commencement Exhibition, MICA, Baltimore, MD

National Robotfest & DIY Expo, U.S. Science and Engineering
Festival, Washington, D.C.

Garment Workers, Middendorf Gallery, Baltimore, MD

Hands On, Piano Gallery, Baltimore, MD

2011

Juried Undergrad Show, Decker Gallery, Baltimore, MD

Not Your Father's Trousers, Middendorf Gallery, Baltimore, MD

2010

Sign Language, Whole Gallery, Baltimore, MD

Group Production, Basement Gallery, MICA, Baltimore, MD

2009

Juried Undergrad Show, Decker Gallery, MICA, Baltimore, MD

2008

Presidential Scholars in the Arts: Works in the Visual and Literary Arts,
National Portrait Gallery, Washington, DC