

# Doris Jung-Lin Lee

dorisjunglinlee@gmail.com • dorisjunglinlee.com • GitHub: dorisjlee

## EDUCATION

Ph.D. Computer Science, University of Illinois, Urbana-Champaign Aug 2016 - Present

B.A. Physics, Astrophysics, University of California, Berkeley Sept 2013 - May 2016

## RESEARCH EXPERIENCE

Research Intern at Tableau Software Summer 2018

Graduate Student Research Assistant at UIUC Aug 2016 - Present

Lawrence Berkeley National Lab Scientific Data Management Group Summer 2016

UC Berkeley AMP Lab Big Data Genomics Group January 2016 - Aug 2016

UC Berkeley Hybrid Ecologies Lab June 2014 - Aug 2016

Princeton Astrophysical Fluid Dynamics Group Summer 2015

UC Berkeley Star Formation Theory Group November 2014 - Aug 2016

University of Illinois Laboratory for Cosmological Data Mining May 2014 - Jan 2016

## PUBLICATIONS

### Full Papers

[P5] **Doris Jung-Lin Lee**, Aditya Parameswaran, The Case for a Visual Discovery Assistant: A Holistic Solution for Accelerating Visual Data Exploration. *IEEE Data Engineering Bulletin*, September 2018.

[P4] **Doris Jung-Lin Lee**, John Lee, Tarique Siddiqui, Jaewoo Kim, Karrie Karahalios, Aditya Parameswaran. Accelerating Scientific Data Exploration via Visual Query Systems (2017).

[P3] **Doris Jung-Lin Lee**, Joanne Lo, Moonhyok Kim, Eric Paulos, Crowdclass: Designing classification-based citizen science learning modules. *The Fourth AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Austin, Texas, November 2016.

[P2] Joanne Lo, **Doris Jung-Lin Lee**, Nathan Wong, David Bui, Eric Paulos, Skintillates: Towards Epidermal Interactions. *ACM Designing Interactive Systems (DIS)*, Brisbane, Australia, June 2016.

### Honorable Mention.

[P1] Laura Devendorf, Joanne Lo, Noura Howell, **Doris Jung-Lin Lee**, Nan-Wei Gong, M. 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. *ACM Transactions on Computer-Human Interaction (CHI)*, San Jose, USA, May 2016. **Best Paper Award.**

### Workshop/Short Papers

[W5] **Doris Jung-Lin Lee**, Akash Das Sarma, Aditya Parameswaran, Aggregating Crowdsourced Image Segmentations. *The Sixth AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Zurich, Switzerland, July 2018.

[W4] Edward W Huang, Sheng Wang, **Doris Jung-Lin Lee**, Runshun Zhang, Baoyan Liu, Xuezhong Zhou, ChengXiang Zhai. Framing Electronic Medical Records as Polylingual Documents in Query Expansion *AMIA Annual Symposium Proceedings*. American Medical Informatics Association, 2017.

[W3] **Doris Jung-Lin Lee**, Jinda Han, Dana Chambourová, Ranjitha Kumar. Identifying Fashion Accounts in Social Networks. *In Proceedings of ACM KDD 2017 Machine learning meets fashion Workshop*, Halifax, Nova Scotia, August 2017.

[W2] Ling Jin, **Doris Jung-Lin Lee**, Alex Sim, Sam Borgeson, John Wu, Anna Spurlock, Annika Todd, Comparison of Clustering Techniques for Residential Energy Behavior using Smart Meter Data, *2nd International Workshop on Artificial Intelligence for Smart Grids and Smart Buildings* In conjunction with AAAI 2017.

[W1] **Doris Jung-Lin Lee**, Robert J. Brunner, Pattern Discovery and Large-Scale Data Mining on Cosmological Datasets. *6th Workshop on Algorithms for Modern Massive Data Set (MMDS)*, Berkeley, USA, June 2016.

## Technical Reports

[T2] **Doris Jung-Lin Lee**, Aaron T. Lee, astroSim: Jupyter Notebook tutorials for running astrophysical simulations through the gravitational collapse of a magnetized, rotating sphere. [zenodo:59657]

[T1] **Doris Jung-Lin Lee**, Robert J. Brunner, Creating updated, scientifically-calibrated mosaic images for the RC3 Catalogue (2015) [arXiv:1512.01204].

## PRESENTATIONS

- Crowdclass: Designing classification-based citizen science learning modules. [Slides]
  - 10/31/16 HCOMP, Austin, Texas
  - 10/18/16 UIUC HCI Seminar, Champaign, Illinois
  - 10/13/16 Zooniverse Seminar at Adler Planetarium, Chicago, Illinois
- 05/05/16 Alyssa Morrow, Eric Tu, Frank Austin Nothaft, George He, **Doris Lee**, Anthony Joseph, David Patterson. “Mango: data exploration on large genomic datasets”. UC Berkeley College of Engineering Undergraduate Research Symposium.
- 08/08/15 **Doris Lee**, Kengo Tomida, James Stone, “Three-Dimensional Simulations of Instabilities in Accretion Disk Torus”. Princeton University Undergraduate Summer Research Program Final Presentation. [Technical Report]
- 03/25/15 **Doris Lee**, Robert Brunner, “Creating updated, scientifically-calibrated mosaic images for the RC3 Catalogue”. Society of Physics Students West Coast Zone Meeting. [Poster]

## PATENTS

- *Skintillates: Towards Epidermal Electronics Interactions*. Eric Paulos, Joanne Lo, Jung-Lin Lee, U.S. Provisional Patent Application No.62/174,735, June 2015.
- *Individually Addressable, Highly Efficient, Trifunctional Conductive Thread*. Eric Paulos, Kimiko Ryokai, Joanne Lo, Laura Devendorf, Jung-Lin Lee, Nan-Wei Gong, Karen Robinson, Ivan Poupyrev, June 2015.

## AWARDS

- |   |           |
|---|-----------|
| • UIUC Computer Science Excellence Fellowship | Oct 2016  |
| • ACM DIS 2016 Honorable Mention Award        | June 2016 |
| • ACM CHI 2016 Best Paper Award               | May 2016  |

## SERVICE

Mentoring:

Moonhyook Kim (UC Berkeley, 2016), Akari Asai (UC Berkeley, 2016), Dana Chambourova (UIUC Senior Thesis, 2017), Jaewoo Kim (UIUC, 2017), Yanqing Ma (UIUC, 2017), Huizi Hu (UIUC, 2017)

ACM TIIS 2018 Reviewer

ACM IUI 2018 Program Committee

ACM CHI 2018 Reviewer

ACM SIGCHI Executive Committee 2017 Student Volunteer

ACM IUI 2017 Reviewer

ACM XRDS Magazine News Editor

Nov 2014-August 2016

Organization Mentor for Google Code-In youth programming contest

2015-2016 Season