

Eunice Jun

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Research Mission

- Aim To re-imagine the stack of data analysis tools by designing new *languages* and *interfaces* for statistical analysis. To lower the barrier to *reproducible* statistics, especially for *non-experts*.
- Areas Human-Computer Interaction, Software Engineering, Programming Languages, Data Science, all things data!

Education

- 2016-present **University of Washington**
Ph.D., Computer Science & Engineering
Advisors: Jeffrey Heer, Rene Just
- 2019 **University of Washington**
M.S., Computer Science & Engineering
Advisor: Katharina Reinecke, Secondary reader: Gary Hsieh
Thesis: *Surfacing and Designing for Participant Learning and Interest in Online Experiments*
- 2016 **Vanderbilt University**
B.S., Computer Science & Engineering (honors), Cognitive Studies (honors)
Advisors: Bobby Bodenheimer (computer graphics), John Rieser (psychology)
Thesis: *Gap and Ledge Affordance Judgments with Training Using the Oculus Rift DK2*

Publications

Refereed Conference Papers

- UIST19 **Eunice Jun**, Maureen Daum, Jared Roesch, Sarah Chasins, Emery Berger, Rene Just, and Katharina Reinecke. Tea: A High-level Language and Runtime System for Automating Statistical Analysis. *Proceedings of the ACM Conference on User Interface Software and Technology (UIST)*. New Orleans, LA, USA. 2019.
- CSCW19 **Eunice Jun**, Daniel McDuff, Mary Czerwinski. Circadian Rhythms and Physiological Synchrony: Evidence of the Impact of Diversity on Small Group Creativity. *Proceedings of the ACM on Human-Computer Interaction. Volume 3, Issue 60 (CSCW)*. Austin, TX, USA. 2019.
- EuroVis19 Yang Liu, **Eunice Jun**, Qisheng Li, Jeffrey Heer. Latent Space Cartography: Visual Analysis of Vector Space Embeddings. *Computer Graphics Forum. Volume 38. Issue 3 (Proceedings of EuroVis)*. Porto, Portugal. 2019.
- CSCW18 **Eunice Jun**, Blue A. Jo, Nigini Oliveira, Katharina Reinecke. Digestif: Promoting Science Communication in Online Experiments. *Proceedings of the ACM on Human-Computer Interaction. Volume 2, Issue 84 (CSCW)*. Jersey City, New Jersey, USA. 2018.
- L@S18 **Eunice Jun**, Morelle Arian, Katharina Reinecke. The Potential for Scientific Outreach and Learning in Mechanical Turk Experiments. *Proceedings of the ACM Conference on Learning at Scale (L@S)*. London, UK. 2018.
- CSCW17 **Eunice Jun**, Gary Hsieh, Katharina Reinecke. Types of Motivation Affect Study Selection, Attention, and Dropouts in Online Experiments. *Proceedings of the ACM on Human-Computer Interaction. Volume 1, Issue 56 (CSCW)*. Online First. 2017.
- CHI17 Nigini Oliveira, **Eunice Jun**, Katharina Reinecke. Citizen Science Opportunities in Volunteer-Based Online Experiments. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*. Denver, Colorado, USA. 2017.

Refereed Journal Papers

- TAC19 Daniel McDuff, **Eunice Jun**, Kael Rowan, Mary Czerwinski. Longitudinal Observational Evidence of the Impact of Emotion Regulation Strategies on Affective Expression." *IEEE Transactions on Affective Computing*. 2019.
- TAP15 **Eunice Jun**, Jeanine K. Stefanucci, Sara H. Creem-Regehr, Michael N. Geuss, William B. Thompson. BigFoot: Using the Size of a Virtual Foot to Scale Gap Width. *ACM Transactions on Applied Perception. Volume 12, Issue 4 (TAP)*. 2015. **Selected for special issue.**

Workshop Papers, Posters, and Demos

- PLATEAU19 **Eunice Jun**, Emery Berger, Ben Zorn. The Scone DSL: Smart Sampling for Smarter Statistics. *10th Annual Workshop on the Intersection of HCI and PL (PLATEAU), co-located with ACM UIST*. New Orleans, Louisiana, USA. 2019.
- PNWPLSE18 **Eunice Jun**, Jared Roesch, and Sarah Chasins. Aperitif: A DSL for Designing Online Experiments. *PNW PLSE Workshop*. Microsoft Research, 2018.
- CHI17w **Eunice Jun**, Bernd Huber, Krzysztof Gajos, Katharina Reinecke. How Curiosity Attracts Participation in Volunteer-based Online Experiments. *Designing for Curiosity Workshop at ACM Conference on Human Factors in Computing Systems (CHI)*. Denver, Colorado, USA. 2017.
- CSCW17w Nigini Oliveira, **Eunice Jun**, Trevor Croxson, Krzysztof Gajos, Katharina Reinecke. LabintheWild: How to Design Uncompensated, Feedback-driven Online Experiments. *Demo at ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW)*. Portland, Oregon, USA. 2017
- GHIC14 **Eunice Jun**, Rachael Grenfell-Dexter. ManiPlus: A Holistic Approach to Malnutrition in Guatemala. *Global Health and Innovation Conference at Yale University*. New Haven, Connecticut, USA. 2014.

Invited Talks and Presentations

- 2020 **CS 374: Introduction to HCI, KAIST**. Instructor: Juho Kim. Zoom.
Tea: A High-level Language and Runtime System for Automating Statistical Analysis
- 2020 **Data Science Club, University of Utah**. Zoom.
Tea: A High-level Language and Runtime System for Automating Statistical Analysis
- 2019 **Industry Affiliates Meeting, University of Washington**, Seattle, WA, USA.
Tea: A High-level Language and Runtime System for Automating Statistical Analysis
- 2019 **Machine Learning and Visual Studio team, Microsoft**. Host: Neel Sundaresan. Redmond, WA, USA.
Tea: A High-level Language and Runtime System for Automating Statistical Analysis
- 2019 **Microsoft Research**, Host: Ben Zorn; Redmond, WA, USA
Tea: A High-level Language and Runtime System for Automating Statistical Analysis
- 2015 **Cognition and Action Department (led by Heinrich Bulthoff), Max Planck Institute for Biological Cybernetics**. Host: Betty Mohler. Tuebingen, Germany.
Virtual Reality & Human-centered Design

Selected Honors

- 2018-present **Graduate Research Fellowship, National Science Foundation**.
- 2017 **Madrona Grand Prize Winner, Madrona VC**
Industry research award for potential academic and business impact.
- 2016-2017 **Wilma Bradley Endowed Fellowship in Computer Science & Engineering, UW CSE**
Recruitment fellowship for first year of PhD.
- 2014-2016 **Ingram Scholarship Program, Vanderbilt University**
Merit scholarship for leadership and community service.
- 2015 **Barry M. Goldwater Scholarship Honorable Mention**
- 2014 **Peabody College Undergraduate Travel Award, Vanderbilt University**
- 2013-2014 **Littlejohn Undergraduate Research Fellowship, Vanderbilt University**

Service

- Organizing Committee
2020 ACM UIST Proceedings Co-chair
2019 ACM Creativity & Cognition (C&C) SV Co-chair

Reviewing

Conferences: ACM UIST: 2019-2020; ACM CHI: 2019-2020; ACM CSCW: 2018, 2020; ACM DIS: 2017-2018
Journals: Journal of Artificial Intelligence Research (JAIR): 2017

Local Service

- 2018-2020 UW Design, Use, Build (DUB) Seminar student coordinator (focus: diversity)

Formal Mentorship and Outreach

- 2017-2020 **Co-organizer**, UW CSE Annual Women's Research Day
2017-present **Design for America Mentor**
2017-2019 **UW CSE Graduate Student Mentor**
Ongoing mentorship of two to three PhD students per year
2017-2018 **Coordinator**, ACM-W Undergraduate Student Mentorship Program
Connect undergraduate and graduate women through ongoing mentorship and regular events
2016-2018 **Mentor**, ACM-W Undergraduate Student Mentor
2015-2016 **Founding Organizer**, Girls Who Code at John Early Middle Prep, Nashville, TN

Research Mentorship

- Undergraduate Melissa Birchfield. 2019 - present. Advisors: Rene Just, Jeffrey Heer
Undergraduate Josh M. Pollock (now PhD student at MIT). 2019 - 2020. Advisor: Zachary Tatlock
Senior thesis: Sidewinder
Undergraduate Blue A. Jo. 2016 - 2018. Advisor: Katharina Reinecke
HS Student Nicole de Moura. 2020.

Teaching

- Winter 2020 Teaching Assistant, **Data visualization**. Instructor: Matthew Conlen. University of Washington.
Graduate TA for a project-based data visualization course for approx. 100 undergraduates.
Jan. 2020 Mentor, **Community Data Science Workshop**.
Assisted workshop attendees (from greater Seattle community) learn Python programming for data scraping, analysis, and visualization. Co-led session on Twitter API usage and help session about data scraping questions.
Winter 2017 Teaching Assistant, **Introduction to HCI**. Instructor: James Fogarty. University of Washington.
Graduate TA for a project-based introductory course to HCI methods and topics for approx. 60 undergraduates.

Professional Experience

- Research
2016-present **University of Washington**, Graduate Researcher
Advisors: Jeffrey Heer and Rene Just. Labs: IDL, UW PLSE
2019 **Microsoft Research**, Graduate Research Intern
Advisors: Ben Zorn, Emery Berger. Lab: RiSE
2018 **Microsoft Research**, Graduate Research Intern

- Advisors: Daniel McDuff, Mary Czerwinski. Lab: HUE (previously VIBE)
 Publications: CSCW19, TAC19
- 2014-2016 **Learning in Virual Environments Lab, Vanderbilt University**, Undergraduate Researcher
 Advisors: Bobby Bodenheimer (CS), John Rieser (Psychology)
- Jan.-Sept. 2015 **University of College Dublin**, Undergraduate Research Intern
 Advisors: David Coyle, Ed Curry
 Funding: Ingram Scholarship
- Summer 2014 **University of Utah**, NSF REU Intern
 Advisors: Bill Thompson (CS), Sarah Creem-Regehr (Psychology), Jeanine Stefanucci (Psychology)
 Publication: TAP15
- 2013-2014 **Center for Latin American Studies, Vanderbilt University**, Undergraduate Researcher
 Advisor: Edward Fischer (Anthropology)
 Funding: Littlejohn Undergraduate Research Fellowship
- Art and Design
- 2015 **Tunneling Light Exhibition, University College Dublin**, Contributing Artist
 Piece: *Colored Light* (multimedia)
 Organizers: Emer O'Boyle, Lorraine Hanlon
- 2013 **The Curbside Chronicle**, Graphic Designer

Last updated: June 23, 2020