

# Emily Sumner | Curriculum Vitae

415 Social Sciences Lab – Irvine, CA

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## Research Interests

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Judgment & decision making	Cognitive development
Risk taking	Curiosity
Decision making under uncertainty	Exploration-exploitation

## Education

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### PhD., Cognitive Sciences (in progress)

University of California, Irvine,

2015 – Present

Advisor: Barbara Sarnecka

### M.A., Psychology

University of California, Irvine,

2015 – 2018

GPA: 3.95

### B.A., Brain & Cognitive Sciences

University of Rochester,

2012 – 2015

GPA: 3.79, cum laude, high distinctions in Brain & Cognitive Sciences, highest honors in research, Dean's List 7/7 eligible semesters. Thesis Advisor: Celeste Kidd

## Fellowships, Awards, and Honors

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### Falmagne Research Award

University of California, Irvine,

2019

Awarded to one advanced student in the department of Cognitive Sciences. Funded project titled, "The Exploration Advantage: Elevated exploration during childhood leads children to learn things that adults don't."

### Graduate Dean's Dissertation Fellowship

University of California, Irvine,

2019 - 2020

Fellowship awarded for academic merit.

### Public Impact Fellowship

University of California, Irvine,

2019

Fellowship awarded for academic excellence and research that influences the public.

### Fellowship in Honor of Christian Werner

University of California, Irvine,

2018

Fellowship awarded for exceptional merit within the School of Social Sciences

### Merit Fellowship

University of California, Irvine,

2015 – 2020

3 Fellowship quarters awarded upon admission

### John I. Yellott Scholar Award

University of California, Irvine,

2016

Awarded to one student in the department of Cognitive Sciences during their first two years of graduate studies. Funded project titled, "Click at your own risk: Investigating individual differences in risk propensity among preschoolers."

### **Graduate Student Travel Award**

*University of California, Irvine,*

2016, 2017

Awarded to travel and present at the Annual Meeting of the Psychonomics Society in 2016, and the Society for Judgment and Decision Making in 2017.

### **Virtual Reality Brain Jam Hackathon Winner**

*Games for Change,*

2017

Won a competitive, internationally attended hackathon for creating a virtual reality measure of risk propensity in 48 hours. Collaborated with video game programmers and competed against 12 other teams.

### **Teaching Award**

*University of California, Irvine,*

2015 – 2020

12 teaching quarters awarded upon admission

### **Bilski-Mayer Fellowship**

*University of Rochester,*

2014

Funded summer research project on decision making and statistical learning.

### **Continuing Student Scholarship**

*University of Rochester,*

2012, 2013, & 2014

Awarded for outstanding academic and extracurricular achievements.

### **Dean's Prize for Undergraduate Research**

*University of Rochester,*

2014

Awarded by the Office of Undergraduate Research for outstanding research during undergraduate.

### **Community Connections Award**

*University of Rochester,*

2014

Awarded by the Department of Gender Studies for founding UR SEGway, a sexual violence prevention group on campus.

### **Psi Chi Membership**

*University of Rochester,*

2013 – Present

Member of the international honor's society for psychology

### **Golden Key International Honor Society Membership**

*University of Rochester,*

2014 – Present

## **Publications**

- **Sumner, E.**, Steyvers, M., & Sarnecka, BW. It's about the Treasure, not the Hunt. Children are more explorative on an explore-exploit tasks than adults are. Proceedings of the 41st Annual Meeting of the Cognitive Sciences Society (In Press)
- **Sumner, E.**, DeAngelis, E., Hyatt, M., Goodman, N., & Kidd, C. (2019) PLoS ONE 14(6): e0217207. <https://doi.org/10.1371/journal.pone.0217207>
- **Sumner, E.**, DeAngelis, E., Hyatt, M., Goodman, N., & Kidd, C. (2015) Toddlers Always Get the Last Word: Recency biases in early verbal behavior. Proceedings of the 37th Annual Meeting of the Cognitive Science Society.

### **Forthcoming manuscripts**

- **Sumner, E.**, Lin, G., Sheen, A., Melcon, R., & Jaeggi, SM. Shima: A Virtual Reality Measure of Risk Taking (Submitted)
- **Sumner, E.**, Steyvers, M., Kidd, C., & Sarnecka, BW. Children are more explorative on explore-exploit tasks than adults. (In Prep)

- Thomas, AJ., **Sumner, E.**, & Sarnecka, BW. Children Expect Leaders to Kick out Intruders, and Not to be Bullies (In prep)
- **Sumner, E.**, Stokes, R., Mistry, PK., Jaeggi, S., & Sarnecka, BW. Preschooler-friendly touchscreen games to measure risk propensity and executive function. (In prep, email for preprint)
- Thomas, AJ., Mitchel, V., Terrizzi, B., Piff, B., **Sumner, E.**, & Sarnecka, BW. How do Children Feel about Hierarchical Groups? (In Prep)

## Conference Presentations

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### Talks.....

- **Sumner, E.** (2019) A hands-on tutorial on Bayesian Statistics for Developmental Psychologists. Cognitive Development Society. Louisville, KY. Talk.
- **Sumner, E.**, Lin, G., Sheen, A., Melcon, R., and Jaeggi, SM. (2019) Shima: A Virtual Reality Measure of Risk Taking. Connected Learning Summit. Irvine, CA. Talk.
- **Sumner, E.**, Steyvers, M., & Sarnecka, BW. (2019) It's not about the Treasure, it's the Hunt: Children are more explorative on an explore-exploit task than adults. Society of Philosophy and Psychology. San Diego, CA. Talk.
- Thomas, AJ, **Sumner, E.** & Sarnecka, BW (2019) Children Expect Leaders to Kick out Intruders, and Not to be Bullies. Society of Research and Child Development. Baltimore, MD. Talk.
- **Sumner, E.** & Sarnecka, BW (2018) The Development of Decision Making and Exploration in Early Childhood. Symposium on Cognition and Language Development. Irvine, CA. Talk.
- **Sumner, E.** (2018) Children Have to Make Their Own Mistakes: Exploration in childhood. Irvine, CA. Talk.
- **Sumner, E.**, Stokes, R., Mistry, PK., Jaeggi, S., & Sarnecka, BW (2017) Measuring Risk Propensity in Young Children. Digital Media Preconference at the Cognitive Development Society. Portland, Oregon. Talk.
- **Sumner, E.**, Melcon, R., Lin, G., Cooper., M., & Kent., H. (2017) Shima: A Virtual Reality Measure of Risk Propensity. Games for Change Festival, New York, NY. Talk
- **Sumner, E.**, DeAngelis, E., Hyatt, M., Goodman, N., & Kidd, C. (2015) Toddlers Always Get the Last Word: Recency biases in early verbal behavior. 37th Annual Meeting of the Cognitive Science Society, Pasadena, CA. Talk.

### Posters.....

- **Sumner, E.**, Steyvers, M., & Sarnecka, BW. (2019) It's not about the Treasure, it's the Hunt: Children are more explorative on an explore-exploit task than adults. 41st Annual Meeting of the Cognitive Sciences Society. Montreal, Canada. Poster.
- **Sumner, E.**, Steyvers, M & Sarnecka, BW (2018) Children Know What is Best, but Explore More: A mismatch between actions and preferences. Explore-Exploit Preconference Workshop at the Annual Meeting of the Cognitive Sciences Society. Madison, WI. Poster.
- **Sumner, E.**, Lee, M., & Sarnecka, BW (2017) Spin at your own risk: individual differences in preschooler's decision-making strategies. Annual Meeting of the Society of Judgement and Decision Making. Vancouver, Canada. Poster.
- **Sumner, E.**, Stokes, R., Mistry, PK., Jaeggi, S., & Sarnecka, BW (2017) Measuring Risk Propensity in Young Children. 58th Annual Meeting of the Psychonomics Society. Vancouver, Canada. Poster.

- **Sumner, E.**, Lee, M., & Sarnecka, BW (2017) Spin at your own risk: individual differences in preschooler's decision-making strategies. Biannual Meeting of the Cognitive Development Society. Portland, OR. Poster.
- **Sumner, E.**, Stokes, R., Mistry, PK., Jaeggi, S., & Sarnecka, BW (2017) Developing Touchscreen Games to Measure Risk Propensity in Younger Children. Annual Meeting of the Engaged Learning Network at the Games for Change Festival, New York, NY. Poster.
- **Sumner, E.**, Lee, M., & Sarnecka, BW. (2016) Investigating Individual Differences in Risk-Taking Preferences Among Preschoolers. 57th Annual Meeting of the Psychonomics Society, Boston, MA. Poster.
- **Sumner, E.**, Lee, M., & Sarnecka, BW. (2016) Investigating Individual Differences in Risk-Taking Preferences Among Preschoolers. 57th Annual Meeting of the Psychonomics Society, Boston, MA. Poster.

## Invited Talks

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- UC Berkeley, Gopnik Lab, March 2019
- UC Berkeley, Kidd and Piantadosi Lab, March 2019

## Work Experience

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**Graduate Student Liaison** **Irvine, CA**  
*University of California, Irvine* *2018–Present*  
 Liaison between the faculty members and graduate students of the Department of Cognitive Sciences.

**Graduate Student Mentor** **Irvine, CA**  
*University of California, Irvine* *2015–Present*  
 Mentoring 15+ students in independent research projects and helping them apply for funding. Have received a total of \$20,000 of research funding.

**User Experience Research Consultant** **Berlin, DE**  
*HelloFresh* *2018 – 2019*  
 Remote consultant for HelloFresh, an international meal kit subscription service. Duties consist of performing statistical analysis, conducting usability tests, and working with an international team.

**Teaching Assistant** **Irvine, CA**  
*University of California, Irvine* *2016 – Present*  
 Teaching assistant for Introduction to Psychology, Psychology of Influence, Abnormal Psychology, and Industrial Organizational Psychology. Responsible for developing lessons and leading three weekly discussion sections.

**Teaching Assistant** **Rochester, NY**  
*University of Rochester* *2015*  
 Teaching Assistant for Language Development course. Assisted in answering student questions, test creation, and grading.

**Undergraduate Researcher** **Rochester, NY**  
*Rochester Baby Lab* *2015*  
 Assisted with running participants and lab administration.

**Naturalist** **Lincoln, MA**  
*Drumlin Farm Day Camp* *Summers 2011 – 2013, 2015*  
 Curriculum development and teaching 3- to 10-year-old day camp students farming, biology and nature in the outdoors.

## Technical Skills

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R,  $\text{\LaTeX}$ , HTML, UNITY, JAGS, JASP, SPSS and Photoshop.

## Professional Affiliations

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Society of Judgment and Decision Making  
Cognitive Development Society  
Psychonomics Society  
Cognitive Science Society

## Ad hoc reviewer

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Judgment and Decision Making  
Biological Psychiatry  
Cognitive Science Society

## Supervised independent undergraduate research projects

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**Julissa Navas:** "Advantages of Cognitive Flexibility During Childhood" (2018)  
**Fatima Pineda:** "The Value of Information to Children" (2018)  
**Hoang Quan Nguyen:** "Assessing Executive Function in Preschoolers" (2018)  
**Kelsy Chou:** "Creating Virtual Reality Measures of Risk Propensity" (2018)  
**Eden Harder:** "The Development of Exploration-Exploitation Strategies" (2017)  
**Amy Giang & Shirley Wang:** "Measuring risk propensity in preschoolers" (2017)  
**Eden Harder:** "Delay discounting: A measure of risk propensity or working memory?" (2017)  
**Gabby Lomeli:** "How affect influence risky propensity preferences in preschoolers" (2016 - 17)  
**Mayra Alaniz:** "Investigating the conceptual development of probability" (2016)  
**Yvonne Vo:** "Development of executive functions in foster children" (2016)  
**Kimia Akhavian:** "Development of gender differences in STEM" (2015-2016)

## Supervised undergraduate research assistants

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Kimia Akhavian\*✦✧, Mayra Alaniz\*, Joanna Baires Amaya\*, Khayla Carsola, Fatima Charara, Kelsy Chou\*, Pontea Doroudian, Jarrett Ebersberger, Vanoosheh Ferdousian, Kelly Fogarty, Emily Garcia\*, Judith Charlene Gallardo✦, Amy Giang\*, Denise Giardina▲, Mikayla Hand\*, Eden Harder\*✧, Heaven Howse\*▲, Jocelyn Hsieh, Amanda Jamison, Jalen Jones, Daria Lasc, Gabby Lomeli\*, Fatima Pineda\*▲, Jonah Przybyszewski, Diana Mansuryan, Julissa Navas✧, Silvia Navarro Hernandez★, Hoang Quan Nguyen\*★▲, Madison Salcedo, Angelica Sheen\*, Justine Skaar, Tina Singh\*, Maria Trucios\*, Melissa Reynoso, Yvonne Vo\*▲, and Shirley Wang\*.

\*assisted students in successfully applying for funding for their research  
★ won the Chancellor's Award for Excellence in Undergraduate Research  
✧ Pursuing a PhD  
✦ Working as a lab or project manager  
▲ Pursuing a master's degree

## Guest Lectures

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Language Development, University of Rochester (2015)  
Cognition and Learning in Educational Settings, UCI (2016)

Abnormal Psychology, UCI (2017)  
Developmental Psychology, UCI (2018)