

## Emily G. Liquin

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### RESEARCH INTERESTS

Explanation, exploration, question asking, causal learning, development

### EDUCATION

<b>PhD</b> ( <i>in progress</i> )	Princeton University Psychology (Cognition) Advisor: Dr. Tania Lombrozo	2018-present
	University of California, Berkeley Psychology (Cognition) Advisors: Dr. Tania Lombrozo & Dr. Alison Gopnik	2016-2018
<b>BA</b> <i>summa cum laude</i>	Northwestern University Cognitive Science (with departmental honors) and Psychology Advisor: Dr. David Uttal	2012-2016

### FELLOWSHIPS, HONORS & AWARDS

2019-2020	Graduate Fellow, Princeton University Program in Cognitive Science
2019	Graduate Student Travel Award, Society for Philosophy and Psychology
2019	Graduate Student Travel Award, Society for Research in Child Development
2018	Glushko Student Travel Award, Cognitive Science Society
2018	Graduate Student Travel Award, Society for Philosophy and Psychology
2016-2021	National Science Foundation Graduate Research Fellowship
2016-2018	Berkeley Fellowship for Graduate Study
2016	Franklin N. & Lee L. Corbin Prize
2015	Phi Beta Kappa, Northwestern University chapter
2015	Summer Undergraduate Research Grant, Northwestern University
2015	Benton J. Underwood Summer Undergraduate Research Fellowship
2015	Fellowship for International Study, Northwestern University
2014	Cognitive Science Undergraduate Research Fellowship, Northwestern University

## REFEREED JOURNAL ARTICLES

1. Liquin, E.G., Metz, S.E., & Lombrozo, T. (2020) Science demands explanation, religion tolerates mystery. *Cognition*, 204, 104398.
2. Liquin, E.G. & Lombrozo, T. (2020) Explanation-seeking curiosity in childhood. *Current Opinion in Behavioral Sciences*, 35, 14-20.
3. Liquin, E.G. & Lombrozo, T. (2020) A functional approach to explanation-seeking curiosity. *Cognitive Psychology*, 119, 101276.
4. Liquin, E.G. & Lombrozo, T. (2018). Structure-function fit underlies the evaluation of teleological explanations. *Cognitive Psychology*, 107, 22-43.

## REFEREED CONFERENCE PROCEEDINGS

1. Liquin, E.G., Callaway, F., & Lombrozo, T. (2020). Quantifying curiosity: A formal approach to dissociating causes of curiosity. In S. Denison., M. Mack, Y. Xu, & B.C. Armstrong (Eds.), Proceedings of the 42nd Annual Conference of the Cognitive Science Society (pp. 309-315). Cognitive Science Society
2. Liquin, E.G. & Lombrozo, T. (2019). Inquiry, theory-formation, and the phenomenology of explanation. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), Proceedings of the 41st Annual Conference of the Cognitive Science Society (pp. 664-670). Montreal, QB: Cognitive Science Society.
3. Liquin, E.G. & Lombrozo, T. (2018). Determinants and consequences of the need for explanation. In T.T. Rogers, M. Rau, X. Zhu, & C.W. Kalish (Eds.), Proceedings of the 40th Annual Conference of the Cognitive Science Society (pp. 696-701). Austin, TX: Cognitive Science Society.
4. Liquin, E.G., Metz, S.E., & Lombrozo, T. (2018). Explanation and its limits: Mystery and the need for explanation in science and religion. In T.T. Rogers, M. Rau, X. Zhu, & C.W. Kalish (Eds.), Proceedings of the 40th Annual Conference of the Cognitive Science Society (pp. 2065-2070). Austin, TX: Cognitive Science Society.
5. Liquin, E.G. & Lombrozo, T. (2017). Explain, explore, exploit: Effects of explanation on information search. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), Proceedings of the 39th Annual Conference of the Cognitive Science Society (pp. 2598-2603). Austin, TX: Cognitive Science Society.

## MANUSCRIPTS UNDER REVIEW / IN PREPARATION

1. Liquin, E.G. & Gopnik, A. (under review). Children are more exploratory and learn more than adults in an approach-avoid task. Preprint: <https://psyarxiv.com/6wate/>

2. Wilkenfeld, D.A., & Liquin, E.G. (in prep). Understanding a complex world, simply and complexly.
3. Liquin, E.G., & Lombrozo, T. (in prep). Explanatory satisfaction tracks epistemic success and motivates inquiry.

## CONFERENCE PRESENTATIONS

### *Talks*

1. Liquin, E.G., Callaway, F. & Lombrozo, T. (2020, July). Quantifying curiosity: A formal approach to dissociating causes of curiosity. Talk to be presented at the annual meeting of the Cognitive Science Society, Toronto, ON. Conference virtual due to COVID-19.
2. Liquin, E.G., & Lombrozo, T. (2020, June). Explanatory satisfaction tracks epistemic success and motivates inquiry. Talk accepted at the annual meeting of the Society for Philosophy and Psychology, Princeton, NJ. Conference cancelled due to COVID-19.
3. Liquin, E.G. & Lombrozo, T. (2019, July). Inquiry, theory-formation, and the phenomenology of explanation. Talk presented at the annual meeting of the Cognitive Science Society, Montreal, QB.
4. Liquin, E.G. & Lombrozo, T. (2019, July). Causal structure modulates the preference for simple explanations. Talk presented at the annual meeting of the Society for Philosophy and Psychology, San Diego, CA.
5. Liquin, E.G. & Gopnik, A. (2019, March). Learning from approach-avoid decisions: Children explore and learn more than adults. Talk presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
6. Liquin, E.G. & Lombrozo, T. (2019, March). Determinants of explanation-seeking curiosity across development. Talk presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
7. Liquin, E.G. & Lombrozo, T. (2018, July). Determinants and consequences of the need for explanation. Talk presented at the annual meeting of the Cognitive Science Society, Madison, WI.
8. Liquin, E.G. & Lombrozo, T. (2018, July). What demands an explanation? Expertise and utility drive explanation search. Talk presented at the annual meeting of the Society for Philosophy and Psychology, Ann Arbor, MI.
9. Liquin, E.G. & Gopnik, A. (2018, May). Exploration, exploitation, and learning across development. Talk presented at the Berkeley-Stanford-Santa Cruz Developmental Talk series, Santa Cruz, CA.

10. Liquin, E.G. & Lombrozo, T. (2017, June). Function over mechanism: Why teleological explanations are so compelling. Talk presented at the annual meeting of the Society for Philosophy and Psychology, Baltimore, MD.
11. Liquin, E.G. & Uttal, D.H. (2016, June). Touchscreen devices and young children: Symbolic understanding, the video deficit, and increasing symbolic competence. Talk presented at the annual Northwestern University Undergraduate Research and Arts Exposition, Evanston, IL.

### ***Posters***

1. Liquin, E.G., Gorucu, S., & Lombrozo, T. (2019, October). Developmental changes in future-oriented explanation search. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.
2. Liquin, E.G. & Lombrozo, T. (2019, July). Causal structure and probability information modulate the preference for simple explanations. Poster presented at the annual meeting of the Cognitive Science Society, Montreal, QB.
3. Metz, S.E., Liquin, E.G., & Lombrozo, T. (2019, July). The varieties of belief: Epistemic differences between scientific and religious beliefs. Poster presented at the annual meeting of the Society for Philosophy and Psychology, San Diego, CA.
4. Liquin, E.G., Metz, S.E., & Lombrozo, T. (2018, July). Explanation and its limits: Mystery and the need for explanation in science and religion. Poster presented at the annual meeting of the Cognitive Science Society, Madison, WI.
5. Liquin, E.G. & Gopnik, A. (2018, July). Learning from approach-avoid decisions in children and adults. Poster presented at “Understanding Exploration-Exploitation Tradeoffs”, pre-conference workshop at the annual meeting of the Cognitive Science Society, Madison, WI.
6. Liquin, E.G. & Gopnik, A. (2018, March). 4- to 8-year-olds balance exploration and exploitation. Poster presented at the Berkeley Artificial Intelligence Research Retreat, Sonoma, CA.
7. Liquin, E.G. & Gopnik, A. (2017, October). 4- to 8-year-olds balance exploration and exploitation. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
8. Liquin, E.G. & Lombrozo, T. (2017, July). Explain, explore, exploit: Effects of explanation on information search. Poster presented at the annual meeting of the Cognitive Science Society, London, England.
9. Liquin, E.G., Sheehan, K.J., & Uttal, D.H. (2017, April). Symbols and screens: Young

children are better at using a paper map than a touchscreen map. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

10. Sheehan, K.J., Liquin, E.G., Hamilton, L., & Uttal, D.H. (2016, May). Taking a break promotes symbolic understanding in 3-year-old children. Poster presented at the Association for Psychological Science 28<sup>th</sup> Annual Convention, Chicago, IL.
11. Sheehan, K.J., Liquin, E.G., & Uttal, D.H. (2015, March). Delay improves 3-year-olds' ability to use a novel symbol, with and without instructions. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
12. Liquin, E., Sheehan, K.J., & Uttal, D.H. (2014, June). The learning effect: The role of task exposure in children's symbolic understanding. Poster presented at the annual Northwestern University Undergraduate Research and Arts Exposition, Evanston, IL.
13. Liquin, E., DeHaas, M., Gustafson, C., Sheehan, K.J., & Uttal, D.H. (2014, May). Overall similarity facilitates young children's symbolic understanding. Poster presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

## INVITED TALKS

2020	University College London, Affective Brain Lab Seminar
2020	Stanford University, Developmental Psychology Brownbag
2019	MIT, Early Childhood Cognition Lab Meeting
2019	New York University, ConCats (Concepts and Categories) Seminar
2019	Rutgers University, Cognitive Science Graduate Seminar

## TEACHING EXPERIENCE

Fall 2019	Assistant in Instruction; <i>Developmental Psychology</i>
Spring 2017, Spring 2018	Graduate Student Instructor; <i>Sense and Sensibility and Science</i> (interdisciplinary course on problem solving and group decision making)
Fall 2017	Guest Instructor; <i>Quantitative Analysis and Coding Knowledge Workshop Series</i> ; Workshops taught: Basic Statistics in R, Plotting in R with ggplot2, Intro to Online Experiments

## SERVICE

### *Institutional Service*

Spring 2019, Fall 2019	Co-Coordinator, Neuroscience and Social Decision Making (NSDM) talk series, Princeton University
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Fall 2017                      Co-Coordinator, Quantitative Analysis and Coding Knowledge  
(QuACK): Statistics and coding workshop series for first-year graduate  
students in psychology, University of California, Berkeley

***Ad Hoc Reviewing***

The Annual Meeting of the Cognitive Science Society  
PLOS ONE

**PROFESSIONAL MEMBERSHIPS**

Cognitive Science Society  
Cognitive Development Society  
Society for Philosophy and Psychology  
Society for Research in Child Development