

# Carolyn Baer

Department of Psychology, University of California, Berkeley  
2121 Berkeley Way West, Berkeley CA

carolynbaer@berkeley.edu  
www.carolynbaer.com

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## EMPLOYMENT **University of California, Berkeley**

2021- Social Sciences and Humanities Research Council of Canada  
Postdoctoral Fellow  
Advisors: Celeste Kidd and Jan Engelmann

## EDUCATION **University of British Columbia**

2015-2020 Ph.D., Psychology  
Thesis: *Developing a sense of certainty*  
Advisor: Darko Odic

## **University of Waterloo**

2014-2015 M.A.Sc., Development and Communication Sciences  
Thesis: *Children's selective transmission of general and specific information*  
Advisor: Ori Friedman

2010-2014 B.A., Honours Psychology  
Honours Thesis: *Children's correction of learned misinformation*  
Advisor: Ori Friedman  
Dean's Honours List

## FUNDING **Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship**

2021-2022 Proposal: *How children navigate certainty and social goals when reasoning about conflicting information*  
Total Amount: \$90 000 CAD

## 2020-2021 **University of British Columbia Arts Graduate Student Research Award**

Proposal: *Developing a sense of certainty*  
Total Amount: \$1 000 CAD

## 2017-2020 **Social Sciences and Humanities Research Council of Canada Joseph-Armand Bombardier Canada Graduate Scholarship**

Proposal: *Metacognition and social interaction in children*  
Total Amount: \$116 667 CAD (including COVID-19 extension)

- 2016-2020 **University of British Columbia Four-Year Doctoral Fellowship**  
*Accepted in title only 2017-2020*  
Total Amount: \$72 800 CAD
- 2015-2016 **Elizabeth Young Lacey Scholarship in Psychology**  
Total Amount: \$17 500 CAD
- 2014 **Quinn Research Award, University of British Columbia Psychology**  
*Funds for Summer Internship with Susan Birch*  
Total Amount: \$5 700 CAD
- 2013 **Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Award**  
*Funds for Summer Internship with Kiley Hamlin*  
Total Amount: \$4 500 CAD
- 2012 **Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Award**  
*Funds for Summer Internship with Ori Friedman*  
Total Amount: \$4 500 CAD

AWARDS &  
HONOURS

- 2022 Cognitive Science Society Glushko Dissertation Award
- 2020 Vision Science Society Elsevier/Vision Research International Graduate Student Travel Award
- 2019 University of British Columbia Psychology Graduate Student Travel Award
- 2019 Swiss Graduate School for Cognition, Learning, and Memory Summer School Tuition and Travel Grant
- 2019 Society for Research in Child Development Graduate Student Travel Award
- 2018 Society for Philosophy and Psychology Graduate Student Travel Award
- 2017 University of British Columbia Graduate Travel Award
- 2017 Society for Research in Child Development Graduate Student Travel Award
- 2014-2015 University of Waterloo Graduate Scholarship (x2)
- 2014 Development 2014 Student Travel Award
- 2014 University of Waterloo President's Research Award  
*For Research Assistantship with Stephanie Denison*

- 2012 University of Waterloo President's Research Award  
*For Research Assistantship with Dr. Ori Friedman*
- 2010-2011 Waterloo County Entrance Scholarship
- 2010 University of Waterloo President's Scholarship of Distinction

PUBLICATIONS \* = undergraduate or post-baccalaureate advisee

- Peer-Reviewed Journal Articles* **Baer, C.** & Odic, D. (2022). Mini Managers: Children strategically divide cognitive labor among collaborators, but have a self-serving bias. *Child Development, 93*, 437-450. doi:[10.1111/cdev.13692](https://doi.org/10.1111/cdev.13692)
- Baer, C.**, \*Malik, P., & Odic, D. (2021). Are children's judgments of another's accuracy linked to their metacognitive confidence judgments? *Metacognition and Learning, 16*, 485-516. doi:[10.1007/s11409-021-09263-x](https://doi.org/10.1007/s11409-021-09263-x)
- Baer, C.** & Odic, D. (2020). Children flexibly compare their perceptual certainty within and across perceptual domains. *Developmental Psychology, 56*, 2095-2101. doi:[10.1037/dev0001100](https://doi.org/10.1037/dev0001100)
- Baer, C.** & Odic, D. (2020). The relationship between children's approximate number confidence and formal mathematics. *Journal of Numerical Cognition, 6*, 50-65. doi:[10.5964/jnc.v6i1.220](https://doi.org/10.5964/jnc.v6i1.220)
- Baer, C.** & Odic, D. (2019). Certainty in numerical judgments develops independently of the Approximate Number System. *Cognitive Development, 52*, 100817. doi:[10.1016/j.cogdev.2019.100817](https://doi.org/10.1016/j.cogdev.2019.100817)
- Baer, C.**, \*Gill, I.K., & Odic, D. (2018). A domain-general sense of confidence in children. *Open Mind: Discoveries in Cognitive Science, 2*, 208-218. doi:[10.1162/opmi\\_a\\_00020](https://doi.org/10.1162/opmi_a_00020)
- Baer, C.** & Friedman, O. (2018). Fitting the message to the listener: Children selectively mention general and specific facts. *Child Development, 89*, 461-475. doi:[10.1111/cdev.12751](https://doi.org/10.1111/cdev.12751)
- Baer, C.** & Friedman, O. (2016). Children's generic interpretation of pretense. *Journal of Experimental Child Psychology, 150*, 99-111. doi:[10.1016/j.jecp.2016.05.004](https://doi.org/10.1016/j.jecp.2016.05.004)
- Peer-Reviewed Conference Proceedings* **Baer, C.**, Ghetti, S., & Odic, D. (2021). Perceptual and memory metacognition in children. Proceedings of the 43<sup>rd</sup> Annual Meeting of the Cognitive Science Society, Vienna, Austria. <https://escholarship.org/uc/item/30g4w4sc>

*Under Review & In Preparation* Dramkin, D., Bonn, C.D., **Baer, C.**, & Odic, D. (under review). The malleable role of non-numeric features in visual number perception.

**Baer, C.** & Kidd, C. (revise & resubmit). Learning with Certainty in Childhood. Invited submission at *Trends in Cognitive Sciences*.

**Baer, C.** & Odic, D. (in preparation). Measuring Metacognitive Confidence in Young Children.

## PRESENTATIONS

*Invited Talks*

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| 2022 | Cooperation Lab, Boston College                        |
| 2022 | Confidence Club, École Normale Supérieure              |
| 2022 | Department of Psychology, Huron University College     |
| 2022 | Leonard Learning Lab, Yale University                  |
| 2022 | Language and Cognitive Development Lab, UC Berkeley    |
| 2022 | Department of Psychology, UW Madison                   |
| 2021 | Developing Minds Lab, Boston University                |
| 2020 | Social Origins Lab, UC Berkeley                        |
| 2020 | BE Works Management Consulting                         |
| 2019 | Markman Lab & Social Learning Lab, Stanford University |
| 2019 | Kidd Lab & Computation and Language Lab, UC Berkeley   |

*Conference Talks*

**Baer, C.** & Odic, D. (October 2019). Perceptual certainty is domain-general in childhood. Paper presented at the Biennial Conference of the Cognitive Development Society, Louisville, KY.

**Baer, C.** & Odic, D. (March 2019). Children's weighing of relative certainty in cooperative tasks. Paper presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

**Baer, C.** & Odic, D. (February 2019). How certainty influences social cognition. Paper presented at the 2019 Northwest Social Cognitive Development Conference, San Juan Island, WA.

**Baer, C.** & Odic, D. (July 2018). How do children know what they know? Exploring the nature and uses of confidence representations. Paper presented at the Annual Meeting of the Society for Philosophy and Psychology, Ann Arbor, MI.

**Baer, C.** & Friedman, O. (April 2014). Generic Basis of Pretend Play. Paper presented at Development 2014: A Canadian Conference on Developmental Psychology, Ottawa, ON.

*Posters*

- Baer, C.** & Odic, D. (2022). Is there a common resource for reasoning about confidence in childhood? Poster presented at the Biennial Conference of the Cognitive Development Society, Madison, WI.
- West, E., **Baer, C.**, & Odic, D. (2022). The relationship between children's metacognitive judgments of knowledge and verbal disfluency. Poster presented at the Biennial Conference of the Cognitive Development Society, Madison, WI. (*Presenting author underlined*)
- Baer, C.**, Ghetti, S., & Odic, D. (2021). Perceptual and Memory Metacognition in Children. Poster presented at the 43<sup>rd</sup> Annual Meeting of the Cognitive Science Society, Vienna, Austria.
- Baer, C.**, Ghetti, S., & Odic, D. (2021). Perceptual and Memory Metacognition in Children. Poster presented at the 2021 Biennial Meeting of the Society for Research in Child Development, Virtual Conference.
- Baer, C.** & Odic, D. (2020). Domain-general representations of confidence throughout development. Poster presented at the Vision Sciences Society Annual Meeting, Virtual Conference.
- Dramkin, D., Bonn, C.D., **Baer, C.**, & Odic, D. (2020) The malleable role of non-numeric features in visual number perception. Poster presented at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL. Cancelled due to COVID-19.
- Baer, C.** & Odic, D. (2020). Domain-generalities of children's certainty reasoning. Poster presented at the Budapest CEU Conference on Cognitive Development, Budapest, Hungary.
- Odic, D. & **Baer, C.** (2019). Domain-general perceptual certainty in early childhood. Poster presented at the Biennial Conference of the Cognitive Development Society, Louisville, KY. (*Co-presenting authors underlined*)
- \*McWilliams, B., **Baer, C.**, & Odic, D. (2019). The Role of Number Sense Certainty in Formal and Informal Math Abilities. Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD. (*Co-presenting authors underlined*)
- Baer, C.** & Odic, D. (2019). Is Batman good at math? The Self-Distancing Effect on the Approximate Number System. Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Baer, C.**, \*Malik, P., Odic, D. (2017). Individual differences in confidence monitoring correlate with selective social learning. Poster presented at the Biennial Conference of the Cognitive Development Society, Portland, OR.

- Odic, D. & **Baer, C.** (2017). Domain-general individual and developmental differences in confidence acuity. Poster presented at the 17<sup>th</sup> Annual Conference of the Vision Sciences Society, Orlando, FL.
- Baer, C.** & Odic, D. (2017). Individual and developmental differences in children's confidence acuity. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.
- Baer, C.,** \*Au, N., & Odic, D. (2017). Team Players: Children cooperatively adjust the difficulty of problems to their partner's skill level. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.
- Baer, C.** & Odic, D. (2016). Measuring individual and developmental differences in children's sense of confidence. Poster presented at the annual meeting of the Cognitive Science Society, Philadelphia, PA.
- Baer, C.** & Friedman, O. (2015). Children selectively transmit general information to ignorant listeners. Poster presented at the Biennial Meeting of the Cognitive Development Society, Columbus, OH.
- Baer, C.** & Friedman, O. (2015). Children selectively transmit general information to ignorant listeners. Poster presented at the Graduate Psychology Discovery Conference, Waterloo, ON.
- Baer, C.** & Friedman, O. (2015). A Developmental Shift in Preschoolers' Interpretation of Pretense. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.
- Baer, C.** & Friedman, O. (2013). Generic Interpretation of Pretend-Play in Preschoolers. Poster presented at the 2013 Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Baer, C.,** Tam, C., Nancekivell, S.E., & Friedman, O. (2013). Order and Disorder in Children's Ownership Judgments. Poster presented at the 2013 Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- Supervised Presentations*
- \*Fai, N., **Baer, C.,** & Odic, D. (2020). Measuring the emergence of metacognition in early childhood. Talk presented at the UBC Multidisciplinary Undergraduate Research Conference, Vancouver, BC.
- \*Sinclair, E., **Baer, C.,** & Odic, D. (2020). Who should we trust: Does subjective certainty influence children's learning? Talk presented at the UBC Multidisciplinary Undergraduate Research Conference, Vancouver, BC.

- \*Pardiwalla, T., **Baer, C.**, & Odic, D. (2020). Across-domain certainty in children. Talk presented at the UBC Multidisciplinary Undergraduate Research Conference, Vancouver, BC.
- \*Weigel, N., **Baer, C.**, & Odic, D. (2019). Can pretending to be Batman help children solve math-related problems? The Self-Distancing Effect on the Approximate Number System. Poster presented at the National Collegiate Research Conference 2019 Annual Conference, Cambridge, MA. **\*Third place poster presentation**
- \*Gill, I., **Baer, C.**, & Odic, D. (2018). A domain-general sense of confidence in children. Talk presented at Connecting Minds 2018, Richmond, BC.
- \*Gertz, N., **Baer, C.**, & Odic, D. (2018). Children can reason about skill and difficulty in cooperative settings. Poster presented at the UBC Psychology Undergraduate Research Conference, Vancouver, BC.
- \*Poon, S., **Baer, C.**, & Odic, D. (2018). Children's confidence moderates number acuity and formal math abilities. Talk presented at the UBC Psychology Undergraduate Research Conference, Vancouver, BC.
- \*Weigel, N., **Baer, C.**, & Odic, D. (2018). Children, skill level, and teamwork: Can children match skill and ability objectively with a good/bad versus neutral skill level prompt. Talk presented at the UBC Psychology Undergraduate Research Conference, Vancouver, BC. **\*Winner of 1 (of 2) Best Talk Awards.**
- \*Ashour, B., **Baer, C.**, & Odic, D. (2017). Children match skill to problem difficulty in a cooperative context. Poster presented at the UBC Psychology Undergraduate Research Conference, Vancouver, BC. **\*Honourable mention for best poster presentation.**
- \*Ashour, B., **Baer, C.**, & Odic, D. (2017). Children match skill to problem difficulty in a cooperative context. Poster presented at the UBC Multidisciplinary Undergraduate Research Conference, Vancouver, BC.
- \*Au, N., **Baer, C.**, & Odic, D. (2017). Team Players: Children cooperatively adjust the difficulty of problems to their partner's skill level. Poster presented at the National Collegiate Research Conference 2017 Annual Conference, Cambridge, MA.

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| OTHER TRAINING | 2019 | Summer School 2019: Dealing with Uncertainty<br>Swiss Graduate School for Cognition, Learning, and Memory |
|                | 2013 | Student Leadership Certificate Program  |

## University of Waterloo

- TEACHING**
- University of California, Berkeley, Department of Psychology**
- 2021 Guest Lecturer (Metacognition Lecture)  
PSYCH 140: Developmental Psychology
- 2021 Guest Lecturer (Metacognition Lecture)  
PSYCH 147: Methods in Cognitive Development
- University of British Columbia, Department of Psychology**
- 2020 Teaching Fellow  
PSYC 217: Research Methods (2 sections)  
Rating: **4.79/5.00** and **4.85/5.00**
- 2020 Teaching Assistant  
PSYC 417A: Psychology of Teaching and Learning  
Rating: **4.50/5.00**
- 2018 Guest Lecturer (Gender Development Lecture)  
PSYC 315: Childhood and Adolescence
- 2018 Guest Lecturer (Social Development Lecture)  
PSYC 102: Introduction to Psychology
- 2015 Teaching Assistant  
PSYC 319: Applied Developmental Psychology  
Rating: **4.0/5.0**
- University of Waterloo, Department of Psychology**
- 2014-2015 Teaching Assistant  
PSYCH 211: Developmental Psychology (3 terms)
- SUPERVISION**
- Honours/Directed Studies Students**
- Nicole Gertz (2017-2018)
- Undergraduate Research Assistants**
- Hope Hawkins (2022-Present)  
Lynn Nguyen (2022-Present)  
Sophia Doerschlag (2022-Present)  
Katie Klender (2021-Present)  
AJ Granera (2021-Present)  
Aimee Lutrin (2020-2021)  
Isabella Schoettler (2020-2021)  
Jordan Hassett (2019-2020)  
Tanya Pardiwalla (2019-2020)



Beatriz Araujo (2019-2020)  
 Eliscia Sinclair (2019-2020)  
 Nick Fai (2019-2020)  
 Leona Cheng (2018-2020)  
 Samantha Kwan (2018-2019)  
 Katrina Zelko (2018-2019)  
 Nicaela Weigel (2017-2019)  
 Sally Poon (2017-2019)  
 Deveena Basi (2017-2018)  
 Puja Malik (2016-2018)  
 Bana Ashour (2016-2017)  
 Inderpreet Gill (2016-2017)  
 Chantane Yeung (2016-2017)  
 Natasha Au (2015-2016)  
 Stephanie Lee (2015-2016)

**Summer Interns**

Charlotte Aitken (2019)  
 Brionne McWilliams (2018)  
 Annie Shiau (2018)  
 Emilie Kneifel (2017)  
 Harris Wong (2017)  
 Eunice Ip (2016)  
 Inderpreet Gill (2016)

**SERVICE**

**Peer Review**

Journal of Experimental Child Psychology, Cognitive Development, Cognition,  
 Visual Cognition, Metacognition and Learning, Behavioral and Brain Sciences,  
 Cognitive Science Society (Conference Proceedings), Scientific Reports,  
 International Journal of Social Robotics

**Service to the Field**

2021 Cognitive Science Society Mentorship Program Mentor  
 2019 Northwest Social Cognitive Development Conference Grad School  
 Panelist

**Departmental Service (UBC)**

2022 Neuroscience Undergraduate Research Conference Judge  
 2020-2021 Developmental Writing Group Founder and Coordinator  
 2020 Honours Program Grad Student Panelist  
 2020 Imagine Day Reddit AMA (Ask Me Anything) Panelist

- 2020 Graduate Academic Assistant for Teaching Assistant Handbook
- 2015-2020 Early Development Research Group Community Recruitment Liaison
- 2019 Psychology Undergraduate Research Conference Judge
- 2018-2019 Colloquium Committee
- 2018 Psychology Undergraduate Research Conference Judge
- 2018 Psychology Student Association Grad School / Research Series Graduate Student Mentor
- 2015-2018 Developmental Area Representative, Graduate Student Council
- 2017 Psychology Student Association Grad School / Research Series Graduate Student Mentor
- 2016-2017 Developmental Area Meeting Coordinator
- 2016-2017 Social Committee, Graduate Student Council

#### Public Outreach

- 2021-Pres. Scientist, Skype a Scientist
- 2021 Guest Blog Post: "[Learning with Confidence](#)", Let's Talk: Youth Psychology Blog, McGill University Summer Institute in School Psychology

PROFESSIONAL MEMBERSHIPS Society for Research in Child Development  
Cognitive Development Society  
Cognitive Science Society  
Association for Psychological Science  
Society for Philosophy and Psychology  
Vision Science Society  
American Psychological Association, Division 7