

Carolyn Baer

Department of Psychology, University of British Columbia
Department of Psychology, Kwantlen Polytechnic University

cebaer@psych.ubc.ca
www.carolynbaer.com

- EMPLOYMENT**
- University of British Columbia**
2023- Postdoctoral Fellow
 - Kwantlen Polytechnic University**
2023- Postdoctoral Fellow
 - University of California, Berkeley**
2021-2023 Social Sciences and Humanities Research Council of Canada
Postdoctoral Fellow
- 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**
- 2023 **Kwantlen Polytechnic University Faculty of Arts Excellence and Advancement Funds**
Proposal: *Confidence and Learning*
Total Amount: \$3 000 CAD
 - 2022-2023 **Berkeley Center for New Media Faculty Seed Grant**
Proposal: *Truth, lies, and misinformation during cognitive development* (PI on record: Celeste Kidd)
Total Amount: \$1 950 USD
 - 2021-2022 **Social Sciences and Humanities Research Council of Canada Postdoctoral Fellowship**

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 &

2022 Cognitive Science Society Glushko Dissertation Award

HONOURS

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 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* Dramkin, D., Bonn, C.D., **Baer, C.**, & Odic, D. (2022). The malleable role of non-numeric features in visual number perception. *Acta Psychologica*, 230, 103737. doi: [10.1016/j.actpsy.2022.103737](https://doi.org/10.1016/j.actpsy.2022.103737)
- Baer, C.** & Kidd, C. (2022). Learning with Certainty in Childhood. *Trends in Cognitive Sciences*, 26, 887-896. doi:[10.1016/j.tics.2022.07.010](https://doi.org/10.1016/j.tics.2022.07.010)
- 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 43rd Annual Meeting of the Cognitive Science Society, Vienna, Austria. <https://escholarship.org/uc/item/30g4w4sc>

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

Baer, C., Engelmann, J., & Kidd, C. (in preparation). Children leverage confidence to rationally integrate beliefs.

PRESENTATIONS

<i>Invited Talks</i>	2022	Autonomous Agents Lab, Stanford University
	2022	Developmental Area, UC San Diego
	2022	Developmental Area, Stanford University
	2022	Institute for Human Development, UC Berkeley
	2022	BE Works Management Consulting
	2022	Glushko Prize Symposium, Cognitive Science Society
	2022	Cognition and Learning Center, Rutgers University
	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., Engelmann, J., & Kidd, C. (January 2023). Children leverage confidence to rationally integrate beliefs. Paper presented at the "Truth, lies, and misinformation during cognitive development" workshop at the Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

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 43rd 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 17th 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.

OTHER TRAINING

- 2019 Summer School 2019: Dealing with Uncertainty
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, 2022 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 Visiting Scholars

Winuss Mohtezabsade (2022, UCB)

Honours/Directed Studies Students

Manhoor Faisal (2022, UBC)
Nicole Gertz (2017-2018, UBC)

Undergraduate Research Assistants

Alex Tam (2022-Present, UCB)
Remy White (2022-Present, UCB)
Sydney Tran (2022-Present, UCB)
Lynn Nguyen (2022-Present, UCB)
Sophia Doerschlag (2022-Present, UCB)
AJ Granera (2021-Present, UCB)
Hope Hawkins (2022)
Katie Klender (2021-2022)
Aimee Lutrin (2020-2021, UBC)
Isabella Schoettler (2020-2021, UBC)
Jordan Hassett (2019-2020, UBC)
Tanya Pardiwalla (2019-2020, UBC)
Beatriz Araujo (2019-2020, UBC)
Eliscia Sinclair (2019-2020, UBC)
Nick Fai (2019-2020, UBC)
Leona Cheng (2018-2020, UBC)

Samantha Kwan (2018-2019, UBC)
 Katrina Zelko (2018-2019, UBC)
 Nicaela Weigel (2017-2019, UBC)
 Sally Poon (2017-2019, UBC)
 Deveena Basi (2017-2018, UBC)
 Puja Malik (2016-2018, UBC)
 Bana Ashour (2016-2017, UBC)
 Inderpreet Gill (2016-2017, UBC)
 Chantane Yeung (2016-2017, UBC)
 Natasha Au (2015-2016, UBC)
 Stephanie Lee (2015-2016, UBC)

Summer Interns

Sydney Tran (2022, UCB)
 Charlotte Aitken (2019, UBC)
 Brionne McWilliams (2018, UBC)
 Annie Shiau (2018, UBC)
 Emilie Kneifel (2017, UBC)
 Harris Wong (2017, UBC)
 Eunice Ip (2016, UBC)
 Inderpreet Gill (2016, UBC)

SERVICE

Peer Review

Grants: NSF Review Panel

Journals: Journal of Experimental Child Psychology, Cognitive Development, Cognition, Visual Cognition, Metacognition and Learning, Behavioral and Brain Sciences, Scientific Reports, International Journal of Social Robotics, British Journal of Developmental Psychology, Journal of Vision

Conferences: Cognitive Science Society

Service to the Field

2021-2022 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 Society for Research in Child Development
- MEMBERSHIPS Cognitive Development Society
- Cognitive Science Society
- Association for Psychological Science
- Society for Philosophy and Psychology
- Vision Science Society
- American Psychological Association, Division 7