Carolyn Baer

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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 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 &   2020   Vision Science Society Elsevier/Vision Research International
HONOURS   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., *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

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

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

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

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

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

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

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. (under revision). Mini Managers: Children strategically divide cognitive labor among collaborators, but have a self-serving bias. Preprint: https://psyarxiv.com/2exjb/

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

Dramkin, D., Bonn, C.D., Baer, C., & Odic, D. (in preparation). The malleable role of non-numeric features in visual number perception.

PRESENTATIONS

Invited Talks	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., 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-generality 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	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
              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)

Service to the Field

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

Departmental Service (UBC)

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

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