

RACHEL SEVERSON

Department of Psychology
University of Montana
32 Campus Drive (Skaggs Rm. 143)
Missoula, MT 59812

rachel.severson@umontana.edu

The Minds Lab: <http://hs.umt.edu/psychology/severson/>
Faculty Profile: <http://www.umt.edu/people/Severson4587>

AREAS OF EXPERTISE

Cognitive Developmental Science; Social Cognitive Development; Anthropomorphism; Social Perspective Taking (development, biases, and promotion); Pretense & Imagination; Selective Social Learning; Social-Moral Judgments and Reasoning; Environmental Moral Reasoning.

POSITIONS

Assistant Professor, January 2016-present
Department of Psychology, University of Montana
Missoula, MT, USA

Postdoctoral Research Fellow, 2013-2016
Knowledge, Imagination, and Development (K.I.D.) Studies Centre
Dr. Susan A. J. Birch, Director
Department of Psychology, University of British Columbia
Vancouver, BC, Canada

Instructor (Visiting Assistant Professor), 2011-2013
Department of Psychology, Western Washington University
Bellingham, WA, USA

Fulbright Fellow, 2010-2011
U.S.–Norway Fulbright Commission, U.S. Department of State
Centre for the Study of Mind in Nature (Norwegian Centre of Excellence), University of Oslo
Oslo, Norway

EDUCATION

Ph.D. University of Washington, Developmental Psychology, 2010
Committee: Peter Kahn, Jr. (Chair), Stephanie Carlson, Betty Repacholi, & Gene Myers

M.A. Antioch University Seattle, Integrative Studies in Psychology, 2004

B.S. Western Washington University, Environmental Policy & Assessment, 1997

OTHER PROFESSIONAL EXPERIENCE

Science Advisor, New York Hall of Science, 2009-2012
Wild Minds: What Animals Really Think (NSF-funded traveling exhibit on animal cognition)

Advisor/Consultant, Oakland Museum of California, 2010
Natural Sciences Exhibit

PUBLICATIONS (students underlined)

Journal Articles

- Birch, S. A. J., **Severson, R. L.**, & Baimel, A. (2020). Children's understanding of when a person's confidence and hesitancy is a cue to their credibility. *PLOS ONE*, *15* (1), e02227026. <https://doi.org/10.1371/journal.pone.0227026>
- Severson, R. L.**, & Woodard, S. R. (2018). Imagining others' minds: The positive relation between children's role play and anthropomorphism. *Frontiers in Psychology*, *9*, 2140. doi: 10.3389/fpsyg.2018.02140
- Severson, R. L.**, & Lemm, K. M. (2016). Kids see human too: Adapting an individual differences measure of anthropomorphism for a child sample. *Journal of Cognition and Development*, *17*, 122-141. doi: 10.1080/15248372.2014.989445
- Baimel, A., **Severson, R. L.**, Baron, A. S., & Birch, S. A. J. (2015). Enhancing 'theory of mind' through synchrony. *Frontiers in Psychology*, *6*, 870. doi: 10.3389/fpsyg.2015.00870
- Kahn, P. H., Jr., Kanda, T., Ishiguro, H., Freier, N. G., **Severson, R. L.**, Gill, B. T., Ruckert, J. H., & Shen, S. (2012). “Robovie, you’ll have to go into the closet now”: Children’s social and moral relationships with a humanoid robot. *Developmental Psychology*, *48*, 303-314. doi: 10.1037/a0027033
- Kahn, P. H., Jr., Kanda, T., Ishiguro, H., Gill, B. T., Ruckert, J. H., Shen, S., Gary, H., Reichert, A. L., Freier, N. G., & **Severson, R. L.** (2012). *Do people hold a humanoid robot morally accountable for the harm it causes?* Proceedings of the 7th ACM/IEEE International Conference on Human-Robot Interaction (HRI 2012, Boston, MA, March 5-8, 2012) (pp. 22-30). Piscataway, NJ: Institute of Electrical and Electronics Engineers (IEEE). doi: 10.1145/2157689.2157696 (Best Paper Award; 25% acceptance rate)
- Severson, R. L.**, & Carlson, S. M. (2010). Behaving as or behaving as if? Children's conceptions of personified robots and the emergence of a new ontological category. *Neural Networks, Special Issue on Social Cognition: From Babies to Robots*, *23*, 1099-1103. doi: 10.1016/j.neunet.2010.08.014
- Severson, R. L.**, & Kahn, P. H., Jr. (2010). In the orchard: Farm worker children’s moral and environmental reasoning. *Journal of Applied Developmental Psychology*, *31*, 249-256. Doi: 10.1016/j.appdev.2010.02.003
- Kahn, P. H., Jr., Ruckert, J. H., **Severson, R. L.**, Reichert, A. L., & Fowler, E. (2010). A nature language: An agenda to catalog, save, and recover patterns of human-nature interaction. *Ecopsychology*, *2*, 59-66.
- Kahn, P. H., Jr., **Severson, R. L.**, & Ruckert, J. H. (2009). The human relationship with nature and technological nature. *Current Directions in Psychological Science*, *18*, 37-42. Doi: 10.1111/j.1467-8721.2009.01602.x

- Kahn, P. H., Jr., Freier, N. G., Kanda, T., Ishiguro, H., Ruckert, J. H., **Severson, R. L.**, & Kane, S. K. (2008). *Design patterns for sociality in human-robot interaction*. Proceedings of the 3rd ACM/IEEE International Conference on Human-Robot Interaction (HRI 2008, Amsterdam, The Netherlands, March 12-15, 2008) (pp. 97-104). Piscataway, NJ: IEEE. doi: 10.1145/1349822.1349836 (18% acceptance rate)
- Kahn, P. H., Jr., Friedman, B., Gill, B. T., Hagman, J., **Severson, R. L.**, Freier, N. G., Feldman, E. N., Carrère, S., & Stolyar, A. (2008). A plasma display window? – The shifting baseline problem in a technologically-mediated natural world. *Journal of Environmental Psychology*, 28, 192-199. Doi: 10.1016/j.jenvp.2007.10.008
- Kahn, P. H. Jr., Saunders, C. D., **Severson, R. L.**, Myers, O. E., Jr., & Gill, B. T. (2008). Moral and fearful affiliations with the animal world: Children’s conceptions of bats. *Anthrozoös*, 21, 375-386. Doi: 10.2752/175303708X371591
- Stanton, C. M., Kahn, P. H., Jr., **Severson, R. L.**, Ruckert, J. H., & Gill, B. T. (2008). *Robotic animals might aid in the social development of children with autism*. Proceedings of the 3rd ACM/IEEE International Conference on Human-Robot Interaction (HRI 2008, Amsterdam, The Netherlands, March 12-15, 2008) (pp. 271-278). Piscataway, NJ: IEEE. doi: 10.1145/1349822.1349858 (36% acceptance rate)
- Kahn, P. H., Jr., Ishiguro, H., Friedman, B., Kanda, T., Freier, N. G., **Severson, R. L.**, & Miller, J. (2007). What is a human? – Toward psychological benchmarks in the field of human-robot interaction. *Interaction Studies: Social Behavior and Communication in Biological and Artificial Systems*, 8, 363-390. Doi: 10.1075/is.8.3.
- Friedman, B., Kahn, P. H., Jr., Hagman, J., **Severson, R. L.**, & Gill, B. (2006). The watcher and the watched: Social judgments about privacy in a public place. *Human-Computer Interaction*, 21, 235-272. Doi: 10.1207/s15327051hci2102_3
- Kahn, P. H., Jr., Freier, N. G., Friedman, B., **Severson, R. L.**, & Feldman, E. (2004). *Social and moral relationships with robotic others?* Proceedings of the 13th International Workshop on Robot and Human Interactive Communication (ROMAN 2004, Kurashiki, Okayama, Japan, September 20-22, 2004) (pp. 545-550). Piscataway, NJ: IEEE. doi: 10.1109/ROMAN.2004.1374819

Invited Reviews and Commentaries

- Severson, R. L.** (2015). Good science? We should all be asking [Review of the book *Who’s asking? Native science, Western science, and science education*, by D. L. Medin & M. Bang]. *Journal of Applied Developmental Psychology*, 38, 70-71. doi:10.1016/j.appdev.2014.11.003 Impact factor: 1.373
- Severson, R. L.** (2015). Film review: “School’s Out: Lessons from a Forest Kindergarten.” *Journal of Educational Controversy*, 9. Open access: <http://www.wce.wvu.edu/Resources/CEP/eJournal/v009n001/>
- Severson, R. L.** (2014). The value of (research on) animals in children’s lives: Commentary on Mueller. *Human Development*, 57, 26-29. doi:10.1159/000357792 Impact factor: 1.9

Chapters in Edited Volumes

- Kahn, P. H., Jr., **Severson, R. L.**, & Ruckert, J. H. (2009). Experiencing technological nature – and the problem when good enough becomes good. In M. Drenthen, J. Keulartz, & J. Proctor (Eds.), *New Visions of Nature* (pp. 145-176). Dordrecht, The Netherlands: Springer.
- Friedman, B., Kahn, P. H., Jr., Hagman, J., **Severson, R. L.**, & Gill, B. (2009). The watcher and the watched: Social judgments about privacy in a public place. Reprinted in R. Harper (Series Ed.), S. Harrison (Vol. Ed.), *Media Space 20 + Years of Mediated Life*. London: Springer.
- Kahn, P. H., Jr., & **Severson, R. L.** (2008). Environmental education. In F. C. Power, R. J. Nuzzi, D. Narvaez, D. K. Lapsley, & T. C. Hunt (Eds.), *Moral education: A handbook* (Vol. 1, pp. 166-167). Westport, CT: Praeger.

Published Technical Reports

- Kahn, P. H. Jr., Kanda, T., Ishiguro, H., Ruckert, J. H., **Severson, R. L.**, Freier, N. G., Gill, B. G., Kane, S. K., Klasnja, P., & Reichert, A. L., (2010). *Coding manual for the "Robovie, you need to go into the closet now!" study*. Seattle, University of Washington, UW ResearchWorks Archive. Available online at: <http://hdl.handle.net/1773/15887>
- Friedman, B., Kahn, P. H., Jr., Hagman, J., & **Severson, R. L.** (2005). *Coding manual for 'The Watcher and The Watched: Social Judgments about Privacy in a Public Place'* (Tech. Rep. No. IS-TR-2005-07-01). Seattle, WA: University of Washington, The Information School. Available online at: <http://hdl.handle.net/1773/2074>
- Kahn, P. H., Jr., Friedman, B., **Severson, R. L.**, & Feldman, E. N. (2005). *Creativity tasks and coding system – Used in the plasma display window study* (Tech. Rep. No. IS-TR-2005-04-01). Seattle, WA: University of Washington, The Information School. Available online at: <http://hdl.handle.net/1773/2050>
- Kahn, P. H., Jr., Friedman, B., Freier, N. G., & **Severson, R.** (2003). *Coding manual for children's interactions with AIBO, the robotic dog - The preschool study* (Tech. Rep. No. UW CSE 03-04-03). Seattle, WA: University of Washington, Department of Computer Science and Engineering. Available online at: <ftp://ftp.cs.washington.edu/tr/2003/04/UW-CSE-03-04-03.pdf>
- Baimel, A., **Severson, R. L.**, & Birch, S. A. J. (in preparation). The 'eyes' have it: Reading the mind in the eyes of humans predicts anthropomorphism of animals.

PRESENTATIONS

Invited Talks

- Severson, R. L.** (2019, October). Panel on *Emotionally Intelligent Robots: More Human than Human?* (with Jonathan Gratch and Sidney D'Mello). USC Visions and Voices, University of Southern California, Los Angeles, CA.
- Severson, R. L.** (2019, April). "Alexa, are you spying on me?" *Identity, privacy, and technology* Panel (with Greg Larson, moderated by Jeremy Smith). University of Montana College of Humanities & Sciences Dialogue, Missoula, MT.

- Severson, R. L.** (2019, February). *Screen Time and Green Time: Effects of Increased Technology on Children's Development*. Bringing the U to You Lecture Series, UM and MSU Alumni Associations, Great Falls, MT.
- Severson, R. L.** (2018, October). Panel on *Emerging Technologies: Children's Engagement with Intelligent and Interactive Media* (with Patricia Greenfield, Mark Mon Williams, and moderated by Jakki Bailey). Digital Media and Developing Minds: Second National Congress. Cold Springs Harbor Laboratory (Cold Springs Harbor, NY).
- Severson, R. L.** (2016, May). *Discerning minds: Children's developing skepticism of an unjustifiably confident model*. Centre for the Study of Mind in Nature, University of Oslo (Oslo, Norway).
- Severson, R. L.** (2016, April). *Discerning minds: Children's developing skepticism of an unjustifiably confident model*. Department of Psychology Colloquium, University of Montana (Missoula, MT).
- Severson, R. L.** (2014, February). *Seeing human: Children's anthropomorphic conceptions of robots*. Department of Psychology, Developmental Area Colloquium, University of British Columbia (Vancouver, BC, Canada).
- Severson, R. L.** (2013, May). *Growing up green: What does time in nature do for your child?* Department of Psychology Family Academy Lecture Series. Western Washington University (Bellingham, WA).
- Severson, R. L.** (2012, August). *Children's conceptions of robots as life-like: Are they just pretending?* Conference on Perceiving and Conceiving Natural and Non-natural Agents: From People to Computers to Gods. Vanderbilt University (Nashville, TN).
- Severson, R. L.** (2011, March). *Thinking "as" or thinking "as if": The role of pretense in children's and young adults' attributions to a robot dinosaur*. Paper presented at the HRI Pioneers Workshop at the 6th ACM/IEEE International Conference on Human Robot Interaction (HRI 2011), Lausanne, Switzerland.
- Severson, R. L.** (2011, April). *The intrinsic value of animals and robots: On the development of moral conceptions of non-human others*. Social Choice Research Group, Department of Economics, Norwegian School of Economics and Business Administration (Bergen, Norway).
- Severson, R. L.** (2010, December). Comment on A. Wax and M. Farah, *The Neuroscience of Deprivation: Implications for Law and Policy (with an initial focus on sentencing)*. Center for the Study of Mind in Nature Conference on Law and the Science of Moral Judgment, University of Oslo (Oslo, Norway).
- Severson, R. L.** (2010, November). *Thinking as or thinking as if: The role of pretense in children's attributions to robots*. Center for the Study of Mind in Nature Language and Rationality Seminar, University of Oslo (Oslo, Norway).
- Severson, R. L.** (2010, September). *The intrinsic value of animals and robots: On the development of moral conceptions of non-human others*. Centre for the Study of Mind in Nature Colloquium, University of Oslo (Oslo, Norway).

Severson, R. L. (2008, September). *Robotic Others: The Emergence of a New Technological Genre?* Seattle Robotics Society (Seattle, WA).

Kahn, P. H., Jr., & **Severson, R. L.** (2008, March). *Designing for the human relation with nature and technological nature.* The Portico Group: Architects, Landscape Architects, Interpretive Planners, & Exhibit Designers (Seattle, WA).

Conference Presentations (students underlined)

Severson, R. L., Woodard, S. R., & Birch, S. A. J. (2019, October). *Mentalizing beyond humans: Theory of mind accuracy is unrelated to anthropomorphism.* Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

Woodard, S. R., **Severson, R. L.**, & Birch, S. A. J. (2019, October). Do children always trust confident individuals? Not when it comes to moral deliberations. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.

Beall, A., Ryan, C., Barker, R., & **Severson, R. L.** (2019, April). *Do young children treat a robot as having intentions and being culpable for its actions?* Poster presented at the University of Montana Conference on Undergraduate Research, Missoula, MT.

Taylor, K. B., Ryan, C., Beall, A., Woodard, S. R., & **Severson, R. L.** (2019, April). *Context Matters in Children's Reasoning about Confident and Hesitant Individuals.* Paper presented at the University of Montana Conference on Undergraduate Research, Missoula, MT.

Severson, R. L., Li, H., Birch, S. A. J., & Lillard, A. (March, 2019). *The Role of Culture in Anthropomorphic Beliefs Among White-Canadian, Asian-Canadian, and Chinese Children and Adults.* Paper presented at the biennial meeting of Society for Research in Child Development, Baltimore, MD.

Lau, P., Woodard, S. R., **Severson, R. L.**, & Birch, S. A. J. (2018, June). *Children's context-dependent interpretations of confidence cues.* Paper presented at the Development 2018 Conference, St. Catharines, ON, Canada.

Barker, R., Lindner, B., & **Severson, R. L.** (2018, April 27). *Children's Understanding of Robots: A New Ontological Category or Just Pretend?* Poster presented at the University of Montana Conference on Undergraduate Research, Missoula, MT.

Cooke, S., & **Severson, R. L.** (2018, April 27). *Are robots animate or inanimate? Children's pronoun use provides insight into categorization challenge.* Poster presented at the University of Montana Conference on Undergraduate Research, Missoula, MT.

Taylor, K. B., Schuster, D., Rosston, S., Gillespie, C., Woodard, S. R. & **Severson, R. L.** (2018, April 27). *Sometimes hesitancy is key: Effects of moral deliberations on children's interpretation of credibility cues.* Poster presented at the University of Montana Conference on Undergraduate Research, Missoula, MT.

Woodard, S. R. & **Severson, R. L.** (2018, April 20). *Do children always trust confident individuals? Not when it comes to moral deliberations.* Poster presented at the University of Montana GradCon – A Graduate Student Research Conference, Missoula, MT.

- Severson, R. L.**, Lau, P., Li, V., & Birch, S. A. J. (2017, October). *Sometimes hesitancy is key: Effects of moral deliberations on children's interpretation of credibility cues*. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
- Severson, R. L.**, Baimel, A., & Birch, S. A. J. (2017, October). *When is confidence a justified credibility cue?* Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
- Baimel, A., **Severson, R. L.**, & Birch, S. A. J. (2017, March). *Children and adult's theory of mind supports anthropomorphic tendencies*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Birch, S. A. J., Baimel, A., & **Severson, R. L.** (2017, March). *Children and adult's understanding of unjustified confidence*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Severson, R. L.** (2016, October). *Young children attribute less to a robot when asked to take a peer's perspective*. Paper presented at the Society for Research in Child Development Special Topics Meeting on Technology and Media in Children's Development, Irvine, CA.
- Severson, R. L.**, & Birch, S. A. J. (2016, June). *Discerning minds: Are children skeptical of an unjustifiably confident informant?* Poster presented at the annual meeting of the Jean Piaget Society, Chicago, IL.
- Severson, R. L.**, Birch, S. A. J., Tahiroglu, D., Moses, L. J., Ghrear, S., & Haddock, T. (2016, June). *The Children's Social Understanding Scale Predicts Social-Emotional Functioning*. Poster presented at the annual meeting of the Jean Piaget Society, Chicago, IL.
- Haddock, T., Ghrear, S., Brosseau-Liard, P., **Severson, R.**, Birch, S., & Li, V. (2016, June). *The curse of knowledge across development: A fluency misattribution account*. Poster presented at the annual meeting of the Jean Piaget Society, Chicago, IL.
- Baimel, A., **Severson, R.**, Birch, S., & Norenzayan A. (2015, May). *Synchronous ritual and mental state reasoning*. Presented at the Cultural Evolution of Religion Consortium's 2015 Plenary Meeting (Religion in the text and on the ground), Montreal, Canada.
- Severson, R. L.**, Li, H., & Lillard, A. (2015, March). *Cultural contributions to anthropomorphic beliefs*. Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Severson, R. L.**, & Birch, S. A. J. (2015, March). *Discerning minds: Older children become skeptical of an unjustifiably confident informant*. Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Baimel, A., **Severson, R. L.**, & Birch, S. A. J. (2015, March). *The 'eyes' have it: Predicting individual differences in anthropomorphism*. Paper presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

- Ghrear, S., Haddock, T., **Severson, R. L.**, Penner, E., & Birch, S. A. J. (2015, March). *Developmental changes in children's curse of knowledge bias*. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Baimel, A., **Severson, R.**, Birch, S., & Norenzayan, A. (2015, February). Synchronous ritual and mental state reasoning. Poster presented at the 16th annual meeting of the Society for Personality and Social Psychology, Long Beach, CA.
- Severson, R. L.**, & Lemm, K. M. (2013, October). *IDAQ-Child Form: A new measure of individual differences in anthropomorphism in children*. Poster presented at the annual meeting of the Cognitive Development Society, Memphis, TN.
- Severson, R. L.**, Younger, R., McCraen, M., Dachenhhausen, M., Wheat, K. (2013, June). *Are Children's Attributions of Animate Characteristics to a Robot and Puppet Veridical or a Product of Pretense?* Poster presented at the annual meeting of the Jean Piaget Society, Chicago, IL.
- Severson, R. L.**, Wheat, K., Dachenhhausen, M., Younger, R., McCraen, M. (2013, June). *The Relation Between Individual Differences in Fantasy Orientation and Attribution of Life-like Characteristics to a Robot*. Poster presented at the annual meeting of the Jean Piaget Society, Chicago, IL.
- Severson, R. L.** (2013, April). *The Role of Pretense and Anthropomorphism in Children's Attributions of Life-Like Characteristics to Robots*. Paper presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Wheat, K., Dachenhhausen, M., Younger, R., McCraen, M., & **Severson, R. L.** (2013, April). *The Relation Between Individual Differences in Fantasy Orientation and Attribution of Life-like Characteristics to a Robot*. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Severson, R. L.** (2011, March). *Thinking as or thinking as if: The role of pretense in children's and young adult's attributions to a robot dinosaur*. Poster presented at the 6th ACM/IEEE International Conference on Human-Robot Interaction (HRI 2011), Lausanne, Switzerland.
- Severson, R. L.** (2009, June). *Animism in a technological world: Children's conceptions of a personified robot*. Poster presented at the annual meeting of the Jean Piaget Society, Park City, UT.
- Kahn, P. H., Jr., **Severson, R. L.**, Ruckert, J. H., & Reichert, A. (2009, April). *Robots in the lives of children*. Paper presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Kahn, P. H., Jr., Kanda, T., Ishiguro, H., Freier, N. G., **Severson, R. L.**, Ruckert, J. H., & Gill, B. T. (2009, April). *Children's Social and Moral Relationship with a Humanoid Robot: Behavior and Reasoning*. Poster presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Friedman, B., Hook, K., Gill, B., Eidmar, L., Sallmander-Prien C., & **Severson, R. L.** (2008, October). *Personlig integritet: A comparative study of perceptions of privacy in public places in Sweden and the United States*. Paper presented at the 5th ACM/IEEE Nordic Conference on Human Computer Interaction (NordiCHI 2008), Lund, Sweden.

- Severson, R. L.** (2008, September). *Relations with wildness in nature*. Discussant remarks at the XVI International Conference of the Society for Human Ecology, Bellingham, WA.
- Kahn, P. H., Jr., Ruckert, J. H., & **Severson, R. L.** (2007, June). *Nature goes digital – Does it matter?* Paper presented at the conference on Psychology-Ecology-Sustainability, Portland, OR.
- Severson, R. L.** (2007, June). *In the orchard: Farm worker children's moral and environmental reasoning*. Paper presented at the conference on Psychology-Ecology-Sustainability, Portland, OR.
- Kahn, P. H., Jr., Friedman, B., Gill, B., Hagman, J., **Severson, R. L.**, Freier, N. G., et al. (2007, March). *Does it matter that nature's "real"? – A plasma window's effects on looking behavior and heart rate recovery from low-level stress*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Kahn, P. H., Jr., **Severson, R. L.**, & Freier, N. F. (2007, March). *Towards a new comparative paradigm in developmental psychology: Human-robot interaction*. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Kahn, P. H., Jr. & **Severson, R. L.** (2006, October). *Biocentrism in a technological world*. Paper presented at the XIV International Conference of the Society for Human Ecology, Bar Harbor, ME.
- Saunders, C. D., Kahn, P. H., Jr., **Severson, R. L.**, Gill, B., & Myers, O. E. (2006, October). *Fear and caring: Children's conceptions of bats*. Paper presented at the XIV International Conference of the Society for Human Ecology, Bar Harbor, ME.
- Kahn, P. H., Jr., Friedman, B., Gill, B., Hagman, J., **Severson, R. L.**, Freier, N. G., et al. (2006, June). *Does it matter that nature's "real"? – A plasma window's effects on looking behavior and heart rate recovery from low-level stress*. Poster presented at the annual meeting of the Jean Piaget Society, Baltimore, MD.
- Kahn, P. H., Jr., & **Severson, R. L.** (2005, October). *Social and moral relationships with robotic pets?* Paper presented at the XIII International Conference of the Society for Human Ecology, Salt Lake City, UT.
- Severson, R. L.** & Kahn, P. H., Jr. (2005, October). *Social and moral judgments about pesticides and the natural environment: A developmental study with farm worker children*. Paper presented at the Society for Human Ecology, Salt Lake City, UT.
- Severson, R. L.** & Kahn, P. H., Jr. (2005, June). *Social and moral judgments about pesticides and the natural environment: A developmental study with farm worker children*. Poster presented at the Jean Piaget Society Conference, Vancouver, BC.
- Feldman, E. N., Kahn, P. H., Jr., & **Severson, R. L.** (2005, April). *A developmental approach to investigating creativity in children: New methods for analyzing the unusual uses test*. Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.
- Severson, R. L.** & Kahn, P. H., Jr. (2005, April). *Social and moral judgments about pesticides and the natural environment: A developmental study with farm worker*

children. Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

Workshops and Roundtable Presentations

- Kahn, P. H., Jr., **Severson, R. L.**, Ruckert, J. H., & Reichert, A. (2008, September). *Technological nature*. Roundtable at the XVI International Conference of the Society for Human Ecology, Bellingham, WA.
- Kahn, P. H., Jr., Rupp, A., **Severson, R. L.**, McClintock, K., Ruckert, J. H., Stromdahl, P. (2008, September). *Designing for the Biodiversity of Human Experience: A Conversation Between (and with) a Research Lab and Professional Design Firm*. Roundtable at the XVI International Conference of the Society for Human Ecology, Bellingham, WA.
- Kahn, P. H., Jr., Kanda, T., Freier, N. G., **Severson, R. L.**, & Ishiguro, H. (2008, March). *Coding Behavioral Video Data and Reasoning Data in Human-Robot Interaction*. Workshop presented at 3rd ACM/IEEE International Conference on Human Robot Interaction (HRI 2008), Amsterdam, Netherlands.
- Kahn, P. H., Jr., Freier, N. G., **Severson, R. L.**, & Stanton, C. (2006, September). *Coding video data in human-robot social interaction: Behavior and reasoning*. Tutorial presented at the 15th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN '06), University of Hertfordshire, Hatfield, UK.

GRANTS

- Co-Investigator Severson (University of Montana) and Investigator Holly Truitt (City of Missoula). “The Link: A Collective, Place-Based Approach to Inspiring Missoula’s Next-Generation Healthcare Work Force.” Science Education Partnership Award (SEPA; R25) (June 1, 2019-May 31, 2024), *National Institute of Health*. Amount funded: \$1,313,811 (UM Sub-award: \$247,143).
- Principle Investigator Severson (internal grant). “UGP 2019: Will children trust a robot's factual information and moral decisions?”, Small Grant (May 1, 2019-August 31, 2020), *University of Montana*. Amount funded: \$5,000.
- Principle Investigator Severson (internal grant). “UGP 2017: NSF CAREER Grant – Will children learn from educational robots?”, Mentored Proposal Development Grant (May 1, 2017-August 31, 2018), *University of Montana*. Amount funded: \$7,748.
- Principle Investigator Severson (internal grant). “UGP 2017: Efficient or faithful imitation of a robot model”, Small Grant (May 1, 2017-August 31, 2018), *University of Montana*. Amount funded: \$5,000.
- Principle Investigator Severson (internal grant). “Children’s understanding of robots,” Mini-grant (April 2012- March 2014), *Western Washington University*. Amount funded: \$2,466.
- Principle Investigator Severson. “A shifting baseline? – Norwegians’ experiences, conceptions, and values for nature,” Fulbright Research Grant (August 2010-June 2011), *U.S.-Norway Fulbright Foundation; U.S. Department of State, Bureau of Educational and Cultural Affairs*. Amount funded: approx. \$25,000.

- Co-Principle Investigator Severson and Principle Investigator Susan A. J. Birch. “Imagining other perspectives: Developing and testing new approaches for assessing and fostering perspective taking,” *Imagination Institute*. Finalist (top 10% out of 250 applicants); Amount requested: \$195,179.

TEACHING

University of Montana

Undergraduate Lecture Courses

- Developmental Psychology (PSYX 230)
- Child Development (PSYX 330)
- Psychological Statistics (PSYX 222)

Graduate Courses

- Advanced Developmental Psychology (PSYX 540)

Western Washington University

Undergraduate Lecture Courses

- Introduction to Psychology (PSY 101)
- Lifespan Developmental Psychology (PSY 230)
- Honors Psychology Colloquium (HNRS 204)
- Child Development (PSY 330)
- Research Methods (PSY 301)

Undergraduate Seminars

- Developmental Psych: Pretense & Imagination (PSY 430)
- Psychological Theory (Philosophy of Psychology) (PSY 482)

AWARDS AND HONORS

- Women’s Leadership Initiative Fellow (2019-2020), University of Montana
- Early Career Travel Award (2015), Society for Research in Child Development (\$500)
- Travel Award (2015), Department of Psychology, University of British Columbia (CAD\$1000)
- Travel Award (2015), Post Doctoral Fellows Office, University of British Columbia (CAD\$500)
- Honoree (2012), Senior Giving Campaign, Western Foundation, Western Washington University
- Fulbright Fellowship (2010-2011), U.S. Department of State, U.S.-Norway Fulbright Foundation, Oslo, Norway (approx. US \$25,000)
- Alcor Graduate Student Fellowship (2009), Department of Psychology, University of Washington (\$9,000)
- Excellence and Innovation Travel Award (2009), The Graduate School, University of Washington (\$600)

- Bolles Graduate Student Fellowship (2008-2009), Department of Psychology, University of Washington (\$3,000)
- Excellence and Innovation Travel Award (2005), The Graduate School, University of Washington (US\$600)
- Commendation Letter for Excellence in Undergraduate Teaching (2007), Department of Psychology, University of Washington

PROFESSIONAL ACTIVITIES

Journal Editor

- Editorial Board, *Human Behavior and Emerging Technologies* (2019-current)
- Guest Academic Editor, *PLoS ONE* (2018-2019)

Ad Hoc Reviewer

Journals

- *Autonomous Robots*
- *Child Development*
- *Child Development Perspectives*
- *Children and Media*
- *Cognitive Development*
- *Cognitive Psychology*
- *Developmental Psychology*
- *Developmental Science*
- *Ecopsychology*
- *Environment and Behavior*
- *Frontiers in Psychology*
- *Human Development*
- *Human Robot Interaction*
- *Humanities*
- *Imagination, Cognition, and Personality*
- *Interaction Studies*
- *International Journal of Human-Computer Studies*
- *Journal of Cognition and Development*
- *Journal of Environmental Psychology*
- *Journal of Experimental Child Psychology*
- *Journal of Human-Robot Interaction*
- *PLoS ONE*
- *Robotics*
- *Sustainability*

Grants

- National Science Foundation
- Austrian Science Fund – Hertha Firnberg Programme

Conferences

- APA 2009 (Division 9): 117th American Psychological Association Annual Convention— Division 9: Society for the Psychological Study of Social Issues (SPSSI)
- CHI 2011-12: Annual ACM CHI Conference on Human Factors in Computing Systems
- HRI 2007-11: Annual ACM/IEEE International Conference on Human-Robot Interaction
- RO-MAN 2006: 15th IEEE International Symposium on Robot and Human Interactive Communication

Professional Memberships

- Association for Psychological Science (APS)
- Society for Research in Child Development (SRCD)
- Cognitive Development Society (CDS)
- Jean Piaget Society (JPS)

Workshop and Symposium Organizer

- Chair/Symposium Organizer, symposium on “*Causes and Correlates of Anthropomorphism,*” Society for Research in Child Development Biennial Meeting (SRCD 2015), Philadelphia, PA.
- Chair/Symposium Organizer, symposium on “*Selective Social Learning: Children’s Epistemic Understanding of Credibility Cues,*” Society for Research in Child Development Biennial Meeting (SRCD 2015), Philadelphia, PA.
- Technical Program Committee, International Workshop on Collaborative Robots and Human Robot Interaction (CR-HRI 2011), Philadelphia, PA.
- Workshop Co-organizer, “*Coding Behavioral Video Data and Reasoning Data in Human-Robot Interaction,*” 3rd ACM/IEEE International Conference on Human Robot Interaction (HRI 2008), Amsterdam, The Netherlands.
- Workshop Co-organizer, “*Coding video data in human-robot social interaction: Behavior and reasoning,*” 15th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2006), University of Hertfordshire, Hatfield, UK.
- Symposium Organizer, “*Interactions with Wildness,*” XVI International Conference of the Society for Human Ecology (2008), Bellingham, WA, USA.
- Roundtable Co-organizer, “*Technological nature*” and “*Designing for the Biodiversity of Human Experience: A Conversation Between (and with) a Research Lab and Professional Design Firm,*” XVI International Conference of the Society for Human Ecology (2008), Bellingham, WA, USA.

Professional Service

- Women’s Leadership Initiative Fellow, University of Montana (2019-20)
- Senator, Faculty Senate, University of Montana (May, 2017- May, 2020)
- Member, Department Executive Committee, UM Department of Psychology (August 2018-current)
- Director, Experimental Psychology Doctoral Program, UM Department of Psychology (July 2018-current)
- Member, Child Clinical Psychology Faculty Search Committee, UM Department of Psychology (2018-19, 2019-20 AY)
- Faculty Committee and Advisor, UM Human and Family Development Interdisciplinary

- Minor (Spring 2016-current)
- Member, Research & Creative Scholarship Council, University of Montana (March-May 2018)
- Committee Member, Student Instructional Equipment Fund (SIEF) Proposal Committee, UM College of Humanities and Sciences (Feb 2018-May 2019)
- Scholarship Committee, UM Department of Psychology (Fall 2016-May 2019)
- Faculty Organizer, Experimental Areas Brownbag Series, UM Department of Psychology (Fall 2016-May 2019)
- Co-organizer, Family Academy Lecture Series (public lecture series on child development), Department of Psychology, Western Washington University (2013)
- Fulbright Applicant Interviews, Western Washington University (2012)
- Committee Member, Community Learning and Service Project (CLASP) to link community members with research being conducted at Western Washington University (2011-2013)
- Committee Member, CSMN (University of Oslo) Action Group on Women in Philosophy (2010-2011)
- Committee Member, CSMN (University of Oslo) Committee for Professional Development: Writing and Publications (2010-2011)
- Student Representative, Society for Human Ecology Board (2008-2009)

MEDIA COVERAGE OF RESEARCH

Interviews

- **BBC World Service Radio**
Davidovic, Ivana. (2019, January 28). How are smart speakers affecting us, from privacy to child development? BBC The Why Factor. Available online: <https://www.bbc.co.uk/programmes/w3cswr17>
- **CNN**
Kelley, S. M. (2018, October 16). Growing up with Alexa: A child's relationship with Amazon's voice assistant. CNN Business. Available online: <https://www.cnn.com/2018/10/16/tech/alexa-child-development/index.html>
- **FOX ABC Montana**
Sun, S. (2018, Sep. 26). Research suggests kids share emotions with technology. Available online: <http://www.abcfoxmontana.com/story/39181521/research-suggest-kids-share-emotion-with-technology> and <http://www.abcfoxmontana.com/video?autoStart=true&topVideoCatNo=default&clipId=14639015>
- **Undiscovered Podcast** (WNYC – Science Friday)
Minoff, A., & Feder, E. (2018, September 11). I, Robovie. WNYC Undiscovered Podcast. Available online: <https://www.wnycstudios.org/story/i-robovie>
- **Fast Company**
Reader, R. (2018, June 27). Kids and AI. Fast Company: Are We There Yet? with Ruth Reader. Available online: <https://www.fastcompany.com/video/how-ai-could-be-impacting-childhood-development/mKiAA7vm>

- **NPR**
Douceff, M., & Aubrey, A. (2017, October 30). Alexa, Are You Safe For My Kids? NPR Morning Edition. Available online: <https://www.npr.org/sections/health-shots/2017/10/30/559863326/alexa-are-you-safe-for-my-kids>
- **KPLU 88.5 FM Seattle-Tacoma NPR station**
Spitzer, G. (2013, June 17). 'Sort of' alive: Researchers probe how kids think about robots. NPR (KPLU 88.5). Available online: <http://knkx.org/post/sort-alive-researchers-probe-how-kids-think-about-robots>
- **BBC Science in Action, BBC World Service**
Stewart, J. (2009, July 10). Real nature versus technological nature. *BBC Science in Action (World Service)*. Available online: <http://www.bbc.co.uk/programmes/p003jkk2> (start 20:30)
- **KJR 95.7 FM Seattle, WA**
Ebi, K. (2008, June 22). A window to nature. *Connected KJR 95.7 FM*. Available online: http://hs.umt.edu/psychology/severson/media_files/NatureWindow.mp3

Magazines

- **APS Observer**
Jaffe, E. (2010, May/June). This side of paradise: Discovering why the human mind needs nature. *APS Observer*. Available online: <https://www.psychologicalscience.org/observer/getArticle.cfm?id=2679>
- **New York Times Magazine**
Bloom, P. (2009, April 15). Natural Happiness. *New York Times Magazine*. Available online: <http://www.nytimes.com/2009/04/19/magazine/19wwln-lede-t.html>
- **APA GradPsych Magazine**
Azer, B. (2009, January). Natural views for healthy hearts. *APA gradPsych Magazine: Research Roundup*, 7, 12.
- **AUVSI**
Davis, B. (2008, June). Ones to Watch: Rachel Severson. *AUVSI's Unmanned Systems*, 26, 53-54.

Newspapers

- **The Age (Australia)**
Biegler, P. (2016, November 20). The real costs of making friends with robots. *The Age*. Retrieved online at: <http://www.theage.com.au/technology/technology-news/the-real-costs-of-making-friends-with-robots-20161027-gscgbe>
- **The Oregonian**
Rojas-Burke, J. (2009, May 27). The best natural healer turns out to be nature. *The Oregonian*. Retrieved online at: http://www.oregonlive.com/health/index.ssf/2009/05/the_best_natural_healer_turns.html
- **Seattle Times**
Song, K. M. (2008, June 11). UW study reaffirms nature's stress relieving powers. *The Seattle Times*. Retrieved online at: http://seattletimes.nwsourc.com/html/localnews/2004470165_nature11m.html

Online News Coverage (select)

- **IEEE Spectrum**
Ackerman, E. (2012, April 30). Do kids care if their robot friend gets stuffed into a closet? <http://spectrum.ieee.org/automaton/robotics/artificial-intelligence/do-kids-care-if-their-robot-friend-gets-stuffed-into-a-closet>
- **ABC News Online**
Dye, L. (2009, April 8). Technological nature takes over. *ABCNews.com*. <http://abcnews.go.com/Technology/DyeHard/story?id=7282121&page=1>
- **New York Daily News**
Abels, J. (2008, August 9). When it comes to stress, technology has nothing on nature. *New York Daily News*. Retrieved online at: http://www.nydailynews.com/lifestyle/health/2008/08/10/2008-08-10_when_it_comes_to_stress_technology_has_n.html