

DIANA SELMECZY
Curriculum Vitae

CONTACT INFORMATION

Diana Selmeczy
University of Colorado, Colorado Springs
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POSITIONS HELD

Assistant Professor, University of Colorado, Colorado Springs	2019-current
Postdoctoral Scholar, University of California, Davis Advisor: Dr. Simona Ghetti	2015-2019
Graduate Student, Washington University in St. Louis Advisor: Dr. Ian G. Dobbins	2009-2014
Junior Specialist, UC Davis, Neurocognitive Development Lab Supervisor: Dr. Susan Rivera	2008- 2009

EDUCATION

Ph.D., Psychology, Washington University St. Louis, MO Chair: Dr. Ian Dobbins	December 2014
M.A., Psychology, Washington University in St. Louis, MO Chair: Dr. Ian Dobbins	December 2011
B.S., Psychology, University of California, Davis Minor: Biological Sciences	December 2008

FUNDING

Funded Grants

Ruth L. Kirschstein National Research Service Award (NRSA) NICHD: <i>Developmental Investigation of Adaptive Memory Biases</i> . 1F32HD084313-01A1. Role: Selmeczy, D (PI), Ghetti, S (Sponsor) Amount: \$160,000	2015-2018
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Funded Awards

UCCS Undergraduate Research Academy Faculty Mentor (\$3490)	2020
Society for Research in Child Development Early Career Travel Award (\$500)	2019

UC Davis Postdoctoral Scholar Association Travel Award (\$400)	2019
Washington University Dissertation Fellowship (\$19,000)	2014
Washington University Dissertation Travel Award (\$1,000)	2014
Fellowship from NSF Integrative Graduate Education and Research Training: Cognitive, Computational, and Systems Neuroscience Award (\$60,000)	2010-2012
Washington University Travel Award (\$400 each)	2011, 2013
Washington University Fellowship (\$19,000)	2009-2010

Grants Under Review

National Science Foundation (NSF) <i>The benefits of help-seeking for learning and academic achievement in children</i> Role: PI	2021 Amount: \$465,608
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Unfunded Grants

Department of Defense (MINERVA) Metamodel Analysis Database and Psychoanalytical Artificial Intelligence Nexus Role: Lewis, R. A. (PI), Selmeczy, D. (Co-PI)	2019 Amount: \$1,271,826
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PUBLICATIONS

Peer-reviewed Journal Articles

- Selmeczy, D.,** Kazemi, A. & Ghetti, S. Developmental Differences in Subjective Recollection and Its Role in Decision Making. *Child Dev* (2021) doi:10.1111/cdev.13611
- Selmeczy, D.,** Ghetti, S., Zheng, L. R., Porter, T. & Trzesniewski, K. Help me understand: Adaptive information-seeking predicts academic achievement in school-aged children. *Cognitive Dev* 59, 101062 (2021).
- Leckey, S., **Selmeczy, D.,** Kazemi, A., Johnson, E. G., Hembacher, E., & Ghetti, S. (2020). Response latencies and eye gaze provide insight on how toddlers gather evidence under uncertainty. *Nature Human Behaviour*, 1–9. <https://doi.org/10.1038/s41562-020-0913-y>
- Porter, T., Schumann, K., **Selmeczy, D.,** & Trzesniewski, K. (2020). Intellectual humility predicts mastery behaviors when learning. *Learning and Individual Differences*, 80, 101888. <https://doi.org/10.1016/j.lindif.2020.101888>

- Jaeger, A., Queiroz, M.C., **Selmezy, D.**, & Dobbins, I.G., (2020). Source retrieval under cueing: Dissociated effects on accuracy versus confidence. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. <http://dx.doi.org/10.1037/xlm0000826>
- Selmezy, D.**, Fandakova, Y., Grimm, K. J., Bunge, S. A., & Ghetti, S. (2019). Longitudinal trajectories of hippocampal and prefrontal contributions to episodic retrieval: Effects of age and puberty. *Developmental Cognitive Neuroscience*, 36, 100599. <http://doi.org/10.1016/j.dcn.2018.10.003>
- Selmezy, D.**, & Ghetti, S. (2019). Here is a hint! How children integrate reliable recommendations in their memory decisions. *Journal of Experimental Child Psychology*, 177, 222–239. <http://doi.org/10.1016/j.jecp.2018.08.004>
- Fandakova, Y., **Selmezy, D.**, Leckey, S., Grimm, K. J., Wendelken, C., Bunge, S. A., & Ghetti, S. (2017). Changes in ventromedial prefrontal and insular cortex support the development of metamemory from childhood into adolescence. *Proceedings of the National Academy of Sciences*, 13, 201703079. <http://doi.org/10.1073/pnas.1703079114>
- Selmezy, D.**, & Dobbins, I. G. (2017). Ignoring memory hints: The stubborn influence of environmental cues on recognition memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 43(9), 1448–1469. <http://doi.org/10.1037/xlm0000383>
- Konkel, A.*, **Selmezy, D.**,* & Dobbins, I. G. (2015). They can take a hint: Older adults effectively integrate memory cues during recognition. *Psychology and Aging*, 30(4), 781–794. <http://doi.org/10.1037/pag0000058>
***joint first authorship**
- Bugg, J. M., Diede, N. T., Cohen-Shikora, E. R., & **Selmezy, D.** (2015). Expectations and experience: Dissociable bases for cognitive control? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 41(5), 1349–1373. <http://doi.org/10.1037/xlm0000106>
- Selmezy, D.**, & Dobbins, I. G. (2014). Relating the content and confidence of recognition judgments. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 40(1), 66–85. doi:10.1037/a0034059
- Selmezy, D.**, Dobbins, I. G. (2013) Metacognitive awareness and adaptive recognition biases. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 39(3), 678–690. doi: 10.1037/a0029469
- Jaeger, A., **Selmezy, D.**, O'Connor, A. R., Diaz, M. D., Dobbins, I. G. (2012) Prefrontal cortex contributions to controlled memory judgment: fMRI evidence from adolescents and young adults. *Neuropsychologia*, 50(14), 3745–3756. doi: 10.1016/j.neuropsychologia.2012.10.022
- Jaeger, A., Lauris, P., **Selmezy, D.**, & Dobbins, I. G. (2011). The costs and benefits of memory conformity. *Memory & Cognition*, 40(1), 101–112. doi:10.3758/s13421-011-0130-z
- Selmezy, D.**, Koldewyn, K., Wang, J. M., Lee, A., Harvey, D., Hessel, D. R., Tassone, F., et al. (2011). Investigation of amygdala volume in men with the fragile X premutation. *Brain Imaging and Behavior*, 5(4), 285–294. doi:10.1007/s11682-011-9132-5

Chapters

Selmezy, D. & Ghetti, S. (2020). Metacognition. In *The Encyclopedia of Child and Adolescent Development* (eds S. Hupp and J. Jewell). doi:[10.1002/9781119171492.wecad369](https://doi.org/10.1002/9781119171492.wecad369)

Ghetti, S., & **Selmezy, D.**, (2018). Metacognition. In *The SAGE Encyclopedia of Lifespan Human Development*. New York: Sage. doi: <http://dx.doi.org/10.4135/9781506307633.n522>

Journal Articles under Review

Shields, M.,* McGinnis, M.,* & **Selmezy, D.**, (2021). Tips and Tricks for Remote Synchronous and Asynchronous Cognitive Research with Children. (invited resubmission).

*Mentored Students

Journal Articles in Preparation

Selmezy, D., Kazemi, A., & Ghetti, S. (2021). The Role of Metamemory in Children's Help-seeking. (in preparation).

PRESENTATIONS

Chaired Symposium

Selmezy, D., & Roebers, C. Psychology meets education: How children gain from self-regulated learning. Society for Research in Child Development. (March, 2019). Baltimore, MD.

Talks

Selmezy, D., How certain am I?": How Metamemory Guides Children's Decision-Making. University of Denver, Neuroscience Research Group (NRG) Seminar Series Invited Speaker. (October, 2020). Denver, CO.

Selmezy, D., The Development of Metamemory and Decision-making. CSU-Pueblo, Chapter of Psi-Chi Invited Speaker. (March, 2020, cancelled due to COVID-19). Pueblo, CO.

Selmezy, D., Kazemi, A., & Ghetti. "Should I ask for help?": How children weigh their confidence and available evidence. Cognitive Development Society. (October, 2019). Louisville, KY.

Selmezy, D., Kazemi, A., & Ghetti. "Should I use your hint?" How children integrate hints into their memory decisions. Society for Research in Child Development. (March, 2019). Baltimore, MD.

Selmezy, D., "How certain am I?": How memory introspections guide children's decision-making. Southern Illinois University Colloquium. (December, 2018). Carbondale, IL.

Selmezy, D., A developmental perspective on memory and decision-making: The role of metacognition. American University Colloquium. (January, 2018). Washington, D.C.

Fandakova, Y., **Selmezy, D.**, Bunge, S. A., & Ghetti, S., Cortical development and metacognitive monitoring in the transition to adolescence. Society for Research and Child Development Biennial Meeting. (April, 2017). Austin, TX

Selmezy, D., & Ghetti, S., The development of memory and decision-making. International Conference of Memory. (July, 2016). Budapest, Hungary

Selmezy, D., Ignoring external cues in recognition memory. Department Brain, Behavior, and Cognition Colloquium. (October, 2012). St. Louis, MO

Poster Presentations

Selmezy, D., Ghetti, S., Zheng, L., Porter, T., & Trzesniewski, K. Seeking help and seeking challenge: The development of learning strategies during childhood and adolescence. Society for Research in Child Development. (March, 2019). Baltimore, MD

Leckey, S., **Selmezy, D.**, Johnson, E., Kazemi, A., Hembacher, E., & Ghetti, S., Toddlers' Uncertainty in a Perceptual Decision Task: Insight From Drift Diffusion Modeling. Society for Research in Child Development. (March, 2019). Baltimore, MD

Selmezy, D., Hembacher, E., Johal, S. & Ghetti, S., "Treasure This, Trash That": How subjective recollection guides memory decisions. Psychonomics. (November, 2017). Vancouver, BC, Canada

Selmezy, D., Hembacher, E. & Ghetti, S., How subjective experience guides children's memory decisions beyond memory accuracy. Cognitive Development Society. (October, 2017). Portland, OR

Selmezy, D., & Ghetti, S., The development of recognition decision biases. Psychonomics. (November, 2016). Boston, MA

Cha, J., **Selmezy, D.**, & Dobbins, I.G., Ignoring environmental influences during recognition memory judgment. Cognitive Neuroscience Society. (March, 2015). San Francisco, CA

Selmezy, D., & Dobbins, I.G., The unintentional influence of external cues during recognition. Psychonomics. (November, 2014). Long Beach, CA

Cohen-Shikora, E.R., **Selmezy, D.**, & Bugg, J.M., Isolating the role of expectations in modulations of Stroop interference. (November, 2014). Long Beach, CA

Konkel, A., **Selmezy, D.**, & Dobbins, I.G., The effect of age on incorporating external information with memory. Psychonomics. (November, 2013). Toronto, Ontario, Canada

Selmezy, D., & Dobbins, I.G., Controlled and uncontrolled cue influence during recognition memory. Association for Psychological Science. (May, 2013). Washington, D.C.

Selmezy, D., & Dobbins, I.G., A simple linguistics analysis of justifications of recognition reports. *Psychonomics*. (November, 2011). Seattle, WA

Selmezy, D., & Dobbins, I.G., Taking memory advice: Incorporating external cues into recognition judgments. *Midwestern Psychological Association*. (May, 2011). Chicago, IL

Wang, J.M., Koldewyn, L., Hessel, D., **Selmezy, D.**, Fragile X Mental Retardation-1 Gene mRNA as a predictor for amygdala volume in Fragile X Premutation men. *Cognitive Neuroscience Conference*. (March, 2008). San Francisco, CA

Mentored Undergraduate Student Poster Presentations

McGinnis, M. & **Selmezy, D.**, The effects of feedback on value-based learning. *CSURF Undergraduate Research Forum*. (April, 2021). Colorado Springs, CO

Davila, J., Varallo, A., **Selmezy, D.**, & Ghetti, S., Asking for help: The influence of hints on children's memory decisions. *University of California, Undergraduate Research Symposium*. (April, 2019). Davis, Ca

Loomis, M., **Selmezy, D.**, & Ghetti, S., The role of socioeconomic status and childhood stress on memory and hippocampal development. *University of California, Undergraduate Research Symposium*. (April, 2019). Davis, Ca

Loomis, M., **Selmezy, D.**, & Ghetti, S., Developmental differences in asking for help and the role of metamemory. *University of California, ASPIRE Symposium*. (June, 2018). Davis, Ca

Johal, S., **Selmezy, D.**, & Ghetti, S., "Treasure or Trash?": The role of subjective evaluations in memory decisions. *University of California, Undergraduate Research Symposium*. (April, 2018). Davis, Ca

Jani, K., **Selmezy, D.**, & Ghetti, S., Metamemory development: How well children integrate helpful hints into their decision-making. *University of California, Undergraduate Research Symposium*. (April, 2018). Davis, Ca

Rader, B., **Selmezy, D.**, & Dobbins, I.G., Ignoring external information during recognition memory judgments. *Washington University in St. Louis Mind, Brain, and Behavior Research Symposium*. (May, 2012). St. Louis, MO

REVEIWER

Ad-Hoc Reviewer:

Cognition; Cognitive Development; Developmental Psychology; Developmental Science; Child Development; Journal of Experimental Psychology: LMC; Metacognition and Learning

NSF Review Panel Member

2020

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Psychonomic Society, Association for Psychological Science, Cognitive Development Society,
Society for Research in Child Development

TEACHING AND MENTORING EXPERIENCE

Programs

Co-Director, Accelerating Success by Providing Intensive Research Experience (ASPIRE) Undergraduate Program, University of California, Davis 2016-2018
<http://socialscience.ucdavis.edu/aspire>

Instructor

Seminar in Developmental Psychology, UCCS 2020-current
Developmental Psychology, UCCS 2019-current
Consciousness and Cognition, UC Davis Spring, 2019
Research Methods in Psychology, UC Davis Fall, 2018
Introduction to Psychology Seminar (2 Sections, co-instructor), Wash. U. Fall, 2014
Introductory Psychological Statistics, Wash U. Summer 2013

DEPARTMENTAL AND UNIVERSITY SERVICE

Psychology Diversity Committee Member 2020-current
Psychology Undergraduate Education Committee Member 2020-current