

DIANA SELMECZY
Curriculum Vitae

CONTACT INFORMATION

Diana Selmeczy
University of Colorado, Colorado Springs
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(719) 255-4179

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

UCCS Committee on Research and Creative Works (CRCW) Grant <i>The development of adaptive help-seeking in children.</i> Role: Selmeczy, D (PI) Amount: \$7497	2021-2022
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

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

Unfunded Grants

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

Under Review Grants

National Science Foundation (NSF) <i>The benefits of help-seeking for learning and academic achievement in children</i> Role: PI	2022 Amount: \$487,601
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PUBLICATIONS

Peer-reviewed Journal Articles

Shields, M. M*, McGinnis, M. N.*, & **Selmeczy, D.** (2021). Remote Research Methods: Considerations for Work With Children. *Frontiers in Psychology, 12*, 703706.
<https://doi.org/10.3389/fpsyg.2021.703706>
*Mentored Students

- Selmezy, D., Kazemi, A., & Ghetti, S. (2021).** Developmental Differences in Subjective Recollection and Its Role in Decision Making. *Child Development, 92*(6), e1308–e1325. <https://doi.org/10.1111/cdev.13611>
- Selmezy, D., Ghetti, S., Zheng, L. R., Porter, T., & Trzesniewski, K. (2021).** Help me understand: Adaptive information-seeking predicts academic achievement in school-aged children. *Cognitive Development, 59*, 101062. <https://doi.org/10.1016/j.cogdev.2021.101062>
- Leckey, S., **Selmezy, 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., **Selmezy, 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 in Preparation

Selmezy, D., Kazemi, A., & Ghetti, S. (2022). The Role of Metamemory in Children's Help-seeking. (in preparation).

PRESENTATIONS

Chaired Symposium

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

Talks

Selmezy, D., The Development of Memory and Decision-Making. University of Colorado, Colorado Springs FMAC New Faculty Research Series. (February, 2021). Virtual Meeting.

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

Panels

Selmezy, D., Teaching at Non-R1 institutions, Invited Panel Member. Washington University in St. Louis. (May, 2021). Virtual Meeting.

Poster Presentations

Shields, M. M*., McGinnis, M. N.*, & **Selmezy, D.** “The role of feedback on value-directed remembering”. Psychonomics. (November, 2021). Virtual Conference.
*Mentored Students

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

- Dieckmann, C., Shields, M. & **Selmezy, D.**, Development of children's help-seeking behaviors during learning. UCCS Mountain Lion Research Days. (December, 2021). Colorado Springs, CO
- 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, Davis, 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:

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

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

Chaired Committees

Morgan McGinnis, Honors Thesis

2021

Programs

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

2016-2018

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