

MATTHEW C. MAKEL

May 26, 2026

matthew.makel@ucalgary.ca

(403) 220-8098

<https://orcid.org/0000-0002-3837-0088>

ACADEMIC EXPERIENCE

2023-Present Professor, Werklund School of Education, University of Calgary
2023-Present Research Chair in High Abilities Studies, University of Calgary
2022-2023 Associate Research Professor, School of Education, Johns Hopkins University
2021-2022 Associate Research Scientist, School of Education, Johns Hopkins University
2019-2021 Director of Research and Evaluation, Duke University Talent Identification Program
2016-2019 Director of Research, Duke University Talent Identification Program
2008-2016 Gifted Education Research Specialist, Duke University Talent Identification Program.

EDUCATION

Ph.D. Indiana University, Educational Psychology, 2008
M.A. Cornell University, Developmental Psychology, 2005
B.A. Duke University, Psychology, 2002

HONORS & AWARDS

2025 Society for the Improvement of Psychology Science commendation for Pownall et al. (2023)
2024 *Gifted Child Quarterly* paper of the year; Most Mathematics Classrooms Contain Wide-Ranging Achievement Levels
2017, 2015 Mensa Education & Research Foundation Award for Excellence in Research
2013
2017 Early Scholar Award, National Association for Gifted Children
2006-2007 Discipline Based Scholarship in Education, Indiana University
2005-2006 Proffitt Graduate Fellowship, Indiana University

BOOKS

Plucker, J. A., Rinn, A. N., & Makel, M. C. (Eds.) (2017). *From Giftedness to Gifted Education: Reflecting Theory in Practices*. Prufrock Press.
Makel, M. C. & Plucker, J. A. (Eds). (2017). *Toward a More Perfect Psychology: Improving Trust, Accuracy, and Transparency in Research*. American Psychological Association.

PEER REVIEWED PUBLICATIONS

Makel, M. C. (2026). Gifted characteristics lists: Big claims, little evidence. *High Ability Studies*. <https://doi.org/10.1080/13598139.2026.2670280>
Makel, M. C., Caroleo, S., Meyer, M., Pei, M., Fleming, J., Hodges, J. Cook, B., & Plucker, J. (2026). ‘Don’t hate the players, hate the game’: Qualitative insights from education researchers on questionable and open research practices. *Royal Society Open Science*, 13(1): 251888. <https://doi.org/10.1098/rsos.251888>

- Makel, M. C. (2025). Making a list requires checking it twice: A call for empirical evidence in characteristics lists. *Gifted Child Quarterly*. <http://doi.org/10.1177/00169862251392934>
- Rambo-Hernandez, K. E., Makel, M. C., & Koehler, N. (2024). Millions of students are (still) above grade level: Achievement and achievement variability in mathematics and reading before and during COVID-19 in the United States. *Journal for the Education of the Gifted*, 47(4), 385-409. <https://doi.org/10.1177/01623532241277840>
- Peters, S. J., Johnson, A., Makel, M. C., & Carter, J. S. (2024). Who's got talent for identifying talent? Predictors of equitable gifted identification for Black and Hispanic students. *Gifted Child Quarterly*, 68(3), 238-246. <https://doi.org/10.1177/0016986224124048>
- Stambaugh, T., Lee, L. E., Makel, M. C., Peters, S. J., & Johnson, K. R., (2024). How does your identification system measure up? A guide to applying the CASA criteria to gifted and talented identification systems. *Gifted Child Today*, 47(4), 246-259. <https://doi.org/10.1177/10762175241263983>
- Makel, M. C., Peters, S. J., Lee, L. E., Stambaugh, T., McBee, M. T., McCoach, D. B., & Johnson, K. R. (2024). Effective identification through multiple criteria. *Gifted Child Today*, 47(2), 108-118. <https://doi.org/10.1177/10762175231222300>
- Peters, S. J., Makel, M. C., Lee, L. E., Stambaugh, T., McBee, M. T., McCoach, D. B., & Johnson, K. R. (2024). What makes for an effective gifted and talented screener? *Gifted Child Today*, 47(2), 98-107. <https://doi.org/10.1177/10762175231222301>
- Matthews, M. S., Jolly, J. L., Makel, M. C., Almhawes, A., Daniels, K. S., Wojciechowski. (2024). Considerations of academically talented students' homeschooling families for returning to traditional schools. *Gifted Child Quarterly*. <https://doi.org/10.1177/00169862231222210>
- Pownall, M., Azevedo, F., Aldoh, A., Elsherif, M., Vasilev, M., Pennington, C. R., Robertson, O., Tromp, M. V., Liu, M., Makel, M. C., Tonge, N., Moreau, D., Horry, R., Shaw, J., Tzavella, L., McGarrigle, R., Talbot, C., Parsons, S., & FORRT. (2024). Embedding open and reproducible science into teaching: A bank of lesson plans and resources. *Scholarship of Teaching and Learning in Psychology*, 10(3), 342-349. <https://doi.org/10.1037/stl0000307>
- Pedersen, B., Makel, M. C., Rambo-Hernandez, K. E., Peters, S. J., Plucker, J. A. (2023). Most mathematics classrooms contain wide-ranging achievement levels. *Gifted Child Quarterly*, 67(3), 220-234. <https://doi.org/10.1177/00169862231166074>
- Pownall, M., Azevedo, F., König, L. M., Slack, H. R., Evans, T. R., Flack, Z., Grinschgl, S., ... & FORRT. (2023). Teaching open and reproducible scholarship: A critical review of the evidence base for current pedagogical methods and their outcomes. *Royal Society Open Science*, 10: 221255. <https://doi.org/10.1098/rsos.221255>
- Peters, S. J., Stambaugh, T., Makel, M. C., Lee, L. E., McBee, M. T., McCoach, D. B., & Johnson, K. (2023). The CASA criteria for evaluating gifted and talented identification systems: Cost, alignment, sensitivity, and access. *Gifted Child Quarterly*, 67(2), 137-150. <https://doi.org/10.1177/00169862221124887>
- Makel, M. C., Meyer, M. S., Simonsen, M. A., Roberts, A. M., & Plucker, J. A. (2022). Replication is relevant to qualitative research. *Educational Research and Evaluation* 27(1-2), 215-219. <https://doi.org/10.1080/13803611.2021.2022310>
- Makel, M. C. (2022). Additional challenges to achieving equity in gifted and talented education. *Gifted Child Quarterly*, 66(2), 101-102. <https://doi.org/10.1177/00169862211039735>

- Rambo-Hernandez, K., Makel, M., Peters, S. J., & Worley, C. (2022). Differential return on investment: Academic growth based on initial achievement. *British Journal of Educational Psychology*, 92(3), 817-842. <https://doi.org/10.1111/bjep.12479>
- Makel, M. C., Hodges, J., Cook, B. G., & Plucker, J. A. (2021). Both questionable and open research practices are prevalent in education research. *Educational Researcher*, 50(8), 493-504. <https://doi.org/10.3102/0013189X211001356>
- Plucker, J. A. & Makel, M. C. (2021). Replication is important for educational psychology: Recent developments and key issues. *Educational Psychologist*, 56(2), 90-100. <https://doi.org/10.1080/00461520.2021.1895796>
- Peters, S. J., Makel, M. C., & Rambo-Hernandez, K. (2021). Local norms for gifted and talented student identification. Everything you need to know. *Gifted Child Today*, 44(2), 93-104. <https://doi.org/10.1177/1076217520985181>
- Snyder, K. E., Makel, M. C., Adelson, J. L., Crawford, B. F., & Barger, M. M. (2021). Concordance and discordance in implicit beliefs about intelligence and giftedness. *Learning and Individual Differences*, 86, <https://doi.org/10.1016/j.lindif.2021.101971>
- Peters, S. J., Rambo-Hernandez, K. E., Makel, M. C., Matthews, M. S., & Plucker, J. A. (2020). Reflections on the registered report process for “Effect of local norms on racial and ethnic representation in gifted education”. *AERA Open* 6(2), 1-2. <https://doi.org/10.1177/2332858420919054>
- Makel, M. C., Smith, K. N., McBee, M. T., Peters, S. J., & Miller, E. M. (2020). Collaboration in giftedness and talent development research. *Journal for the Education of the Gifted*, 43(2) 91-107. <https://doi.org/10.1177/0162353220912019>
- Makel, M. C., Smith, K. N., McBee, M. T., Peters, S. J., & Miller, E. M. (2019). A path to greater credibility: Large-scale collaborative education research. *AERA Open*, 5(4). <https://doi.org/10.1177/2332858419891963>
- Crüwell, S., van Doorn, J., Etz, A., Makel, M. C., Moshontz, H., Niebaum, J., Orben, A., Parsons, S., & Schulte-Mecklenbeck, M. (2019). 7 easy steps to open science: An annotated reading list. *Zeitschrift für Psychologie*, 227(4), 237-248. <https://doi.org/10.1027/2151-2604/a000387>
- Wai, J., Makel, M. C., & Gambrell, J. (2019). An opportunity to reflect on the relationship between elite education, inferred cognitive ability, and the development of eminent creative expertise. *Journal of Expertise*, 2(2). Retrieved from: https://www.journalofexpertise.org/articles/volume2_issue2/JoE_2019_2_2_Wai_Reply.pdf
- Wai, J., Makel, M. C., & Gambrell, J. (2019). The role of elite education and cognitive ability in eminent creative expertise: An historical analysis of the TIME 100. *Journal of Expertise*, 2(2). Retrieved from: https://www.journalofexpertise.org/articles/volume2_issue2/JoE_2019_2_2_Wai.pdf
- Peters, S. J., Rambo-Hernandez, K. E., Makel, M. C., Matthews, M. S., & Plucker, J. A. (2019). The effect of local norms on racial and ethnic representation in gifted education. *AERA Open* 5(2), 1-18. <https://doi.org/10.1177/2332858419848446>
- McBee, M. T. & Makel, M. C. (2019). The quantitative implications of definitions of giftedness. *AERA Open*, 5(1), 1-13. <https://doi.org/10.1177/2332858419831007>
- Smith, K. N. & Makel, M. C. (2019). Open science: A candid conversation. *Journal of Advanced Academics*, 30(2), 111-123. <https://doi.org/10.1177/1932202X19829750>

- Davis, W. E., Giner-Sorolla, R., Lindsay, D. S., Lougheed, J. P., Makel, M. C., Meier, M. E., Sun, J., Vaughn, L. A., & Zelenski, J. M. (2018). Peer review guidelines promoting replicability and transparency in psychological science. *Advances in Methods and Practices in Psychological Science*, 1(4), 556-573.
<https://doi.org/10.1177/2515245918806489>
- McBee, M. T., Makel, M. C., Peters, S. J., & Matthew, M. S. (2018). A call for open science in giftedness research. *Gifted Child Quarterly*, 62(4), 374-388.
<https://doi.org/10.1177/0016986218784178>
- Wai, J., Hodges, J., & Makel, M. C. (2018). Sex differences in ability tilt in the right tail of cognitive abilities: A 35-year examination. *Intelligence*, 67, 76-83.
<https://doi.org/10.1016/j.intell.2018.02.003>
- Pridemore, W. J., Makel, M. C., & Plucker, J. A. (2018). Replications in criminology and the social sciences. *Annual Review of Criminology*, 1(1), 19-38.
<https://doi.org/10.1146/annurev-criminol-032317-091849>
- Olszewski-Kubilius, P., Makel, M. C., Plucker, J. A., Subotnik, R. F. (2017). Universal principles of learning require unique applications for gifted students. *Canadian Psychology*, 58(3), 271-275. <https://doi.org/10.1037/cap0000118>
- Plucker, J. A., Makel, M. C., Matthews, M. S., Peters, S. J., & Rambo-Hernandez, K. E. (2017). Blazing new trails: Strengthening policy research in gifted education. *Gifted Child Quarterly*, 61(3), 210-218. <https://doi.org/10.1177/0016986217701838>
- Peters, S. J., Matthews, M. T., Rambo-Hernandez, K., Makel, M. C., & Plucker, J. A. (2017). Should millions of students take a gap year? Large numbers of students start the school year above grade level. *Gifted Child Quarterly*, 61(3), 229-238.
<https://doi.org/10.1177/0016986217701834>
- Steenbergen-Hu, S., Makel, M. C., Olszewski-Kubilius, P. (2016). What one hundred years of research says about the effects of ability grouping and acceleration on K-12 students' academic achievement: Findings from two second-order meta-analyses. *Review of Educational Research*, 86(4), 849-899. <https://doi.org/10.3102/0034654316675417>
- Makel, M. C., Wai, J. Peairs, K., & Putallaz, M. (2016). Sex differences in the right tail of cognitive abilities: An update and cross cultural extension. *Intelligence*, 59, 8-15.
<https://doi.org/10.1016/j.intell.2016.09.003>
- Makel, M. C., Kell, H. J., Lubinski, D., Putallaz, M., & Benbow, C. P. (2016). When lightning strikes twice: Profoundly gifted, profoundly accomplished. *Psychological Science*, 27(7), 1004-1018. <https://doi.org/10.1177/0956797616644735>
- Makel, M. C., Plucker, J. A., Freeman, J., Lombardi, A., Simonsen, B., & Coyne, M. (2016). Replication of special education research: Necessary but far too rare. *Remedial and Special Education*, 37(4), 205-212. <https://doi.org/10.1177/0741932516646083>
- Makel, M. C. & Wai, J. (2016) Does economic research in education work? For which studies? *Journal of Advanced Academics*, 27(2), 73-80.
<https://doi.org/10.1177/1932202X15628013> [invited commentary]
- Makel, M. C., Snyder, K., Thomas, C., Malone, P., & Putallaz, M. (2015). Gifted students' implicit beliefs about intelligence and giftedness. *Gifted Child Quarterly*, 59(4), 203-121.
<https://doi.org/10.1177/0016986215599057>
- Lee, S. Y., Olszewski-Kubilius, P., Makel, M. C., & Putallaz, M. (2015). Gifted students' perceptions of an accelerated summer program and social support. *Gifted Child Quarterly*, 59(4), 265-282. <https://doi.org/10.1177/0016986215599205>

- Makel, M. C. & Plucker, J. A. (2015). An introduction to replication research in gifted education: Shiny and new is not the same as useful. *Gifted Child Quarterly*, 57(3), 157-164. <https://doi.org/10.1177/0016986215578747>
- Makel, M. C., Wai, J., Putallaz, M., & Malone, P. S. (2015). The academic gap: An international comparison of the time allocation of academically talented students. *Gifted Child Quarterly*, 59(3), 177-189. <https://doi.org/10.1177/0016986215578746>
- Makel, M. C. & Plucker, J. A. (2014). Facts are more important than novelty: Replication in the education sciences. *Educational Researcher*, 43(6), 304-316. <https://doi.org/10.3102/0013189X14545513>
- Makel, M. C. (2014). The empirical march: Making science better at self-correction. *Psychology of Aesthetics, Creativity, and the Arts*, 8, 2-7. <https://doi.org/10.1037/a0035803>
- Makel, M. C. & Plucker, J. A. (2014). Creativity is more than novelty: Reconsidering replication as a creativity act. *Psychology of Aesthetics, Creativity, and the Arts*, 8(1), 27-29. <https://doi.org/10.1037/a0035811>
- Wai, J., Putallaz, M., & Makel, M. C. (2012). Studying intellectual outliers: Are there sex differences, and are the smart getting smarter? *Current Directions in Psychological Science*, 21(6), 382-390. <https://doi.org/10.1177/0963721412455052>
- Makel, M. C., Plucker, J. A., Hegarty, B. (2012). Replications in psychology research: How often do they really occur? *Perspectives on Psychological Science*, 7(6), 537-542. <https://doi.org/10.1177/1745691612460688>
- Makel, M. C., Putallaz, M., & Wai, J. (2012). Teach students what they don't know but are ready to learn: A commentary on "Rethinking giftedness and gifted education." *Gifted Child Quarterly*, 56(4), 198-201. <https://doi.org/10.1177/0016986212456073>
- Makel, M. C., Lee, S. Y., Olszewski-Kubilius, P., & Putallaz, M. (2012). Changing the pond, not the fish: Following high ability students across different educational environments. *Journal of Educational Psychology*, 104(3), 778-792. <https://doi.org/10.1037/a0027558>
- Malin, J. & Makel, M. C. (2012). Gender differences in gifted students' advice on solving the world's problems. *Journal for the Education of the Gifted*, 35(2), 175-187. <https://doi.org/10.1177/0162353212440617>
- Makel, M. C., Li, Y., Putallaz, M., & Wai, J. (2011). High ability students' time spent outside the classroom. *Journal of Advanced Academics*, 22(5), 720-749. <https://doi.org/10.1177/1932202X11424880>
- Wai, J., Cacchio, M., Putallaz, M., & Makel, M. C. (2010). Sex differences in the right tail of cognitive abilities: A 30-Year Examination. *Intelligence*, 38, 412-423. <https://doi.org/10.1016/j.intell.2010.04.006>
- Jolly, J., & Makel, M. C. (2010). No Child Left Behind: The inadvertent costs for high-achieving and gifted students. *Childhood Education*, 87(1), 35-40. <https://doi.org/10.1080/00094056.2010.10521436>
- Makel, M. C. (2009). Student and parent attitudes toward school and giftedness before and after the gifted identification process. *Journal for the Education of the Gifted*, 33(1), 126-142. <https://doi.org/10.1177/016235320903300106>
- Makel, M. C. (2009). Help us creativity researchers, you're our only hope. *Psychology of Creativity, Aesthetics, and the Arts*, 3(1), 38-42. <https://doi.org/10.1037/a0014919>
- Plucker, J. A., Makel, M. C., & Rapp, K. A. (2007). The impact of charter schools on promoting high levels of mathematics achievement. *Journal of School Choice*, 1(4), 63-76.

- Plucker, J. A., Makel, M. C., Hansen, J. A., & Muller, P. A. (2007). Achievement effects of the Cleveland voucher program on high ability students. *Journal of School Choice*, 1(4), 77-88.
- Papierno, P. B., Ceci, S. J., Makel, M. C., & Williams, W. M. (2005). The nature and nurture of talent: A bioecological perspective on the ontogeny of exceptional abilities. *Journal for the Education of the Gifted*, 28(3-4), 312-332. <https://doi.org/10.4219/jeg-2005-343>
- Williams, W. M., Papierno, P. B., Makel, M. C., & Ceci, S. J. (2004). Thinking Like a Scientist about real-world problems: The Cornell Institute for Research on Children science education program. *Journal of Applied Developmental Psychology*, 25(1), 107-126. <https://doi.org/10.1016/j.appdev.2003.11.002>

BOOK CHAPTERS AND OTHER PUBLICATIONS

- Peters, S. J., Makel, M. C., & Carter, J. S. (2023). Gifted education advances school integration and equity. *Phi Delta Kappan*, 105(3), 50-54. <https://doi.org/10.1177/0031721723121201>
- Plucker, J. A., Meyer, M. S., & Makel, M. C. (2023). Supporting innovations: Sociocultural and developmental considerations in the assessment of creativity. In D. D. Preiss, M. Singer, & J. C. Kaufman (Eds.), (pp. 29-50) *Innovation, creativity and change across cultures*. Palgrave.
- Davis, A. M. D. & Makel, M. C. (2022). A review of Replication research in education: A guide to designing, conducting, and analysing studies. *Educational Research and Evaluation*. <https://doi.org/10.1080/13803611.2021.2022312>
- Smith, K. N., Makel, M. C., & Plucker, J. A. (2022). Improving norms and practices in education research. In T. Good (Eds.). *Routledge Encyclopedia of Education*. Routledge. <https://doi.org/10.4324/9781138609877-REE137-1>
- Makel, M. C., Beghetto, R. A., Callahan, C. M., Dow, G. T., Esping, A., Fredericks, S., Krisel, S., Long, H. Y., Omdal, S., Peters, S. J., Qian, M., Rinn, A. N. & Roberts, J. L. (2021). The creativity of Jonathan Plucker. In F. Reisman (Ed.), *Celebrating giants and trailblazers: A-Z of who's who in creativity research and related fields* (pp. 428-455). KIE Publications. Available at <https://kiecon.org/%20creativity-books/>
- Dixson, D. D., Peters, S. J., Makel, M. C., Jolly, J. L., Matthews, M. S., Miller, E. M., Rambo-Hernandez, K. E., Rinn, A. N., Robins, J. H., & Wilson, H. E. (2020). A call to reframe gifted education as maximizing learning. *Phi Delta Kappan*, 102(4), 22-25. <https://kappanonline.org/call-reframe-gifted-education-maximizing-learning-dixson-peter-s-makel/>
- Makel, M. C. & Johnsen, S. K. (2020). Conceptions of giftedness. In J. A. Plucker & C. M. Callahan (Eds.), (pp. 113-122). *Critical Issues and Practices in Gifted Education* (3rd ed.). Prufrock Press.
- Makel, M. C., Corwith, S., & Olszewski-Kubilius, P. (2020). Talent search programs. In J. A. Plucker & C. M. Callahan (Eds.), (pp. 457-469). *Critical Issues and Practices in Gifted Education* (3rd ed.). Prufrock Press.
- Corwith, S., Makel, M. C., Adelson, J. A., & Olszewski-Kubilius, P. (2020). The purpose and function of talent search programs and their relationship to in- and outside-of-school learning. In J. H. Robins, J. L. Jolly, F. A. Karnes, & S. M. Bean (Eds.), (pp. 457-478). *Methods & Materials for Teaching the Gifted* (5th ed.). Prufrock Academic Press.

- Co-publication between Duke TIP and NC DPI. (2018). *Critical Actions to Realize Equity and Excellence in Gifted Education Changing Mindsets, Policies, and Practices*. Retrieved from: <https://www.dpi.nc.gov/media/7263/download>
- Plucker, J. A., Makel, M. C., & Qian, M. (2019). Assessment of creativity. In J. C. Kaufman & R. J. Sternberg (Eds.), *The Cambridge Handbook of Creativity* (2nd ed.; pp. 44-68). New York: Cambridge University Press.
- Adelson, J. L., Barton, E., Bradshaw, C., Bryant, B., Bryant, D., Cook, B. G., ... Troia, G. A. (2019, February 18). A Roadmap for Transparent Research in Special Education and Related Disciplines. <https://doi.org/10.31219/osf.io/sqfy3>
- Plucker, J. A., Guo, J., & Makel, M. C. (2018). Creativity. In S. I. Pfeiffer (Ed.), (pp. 81-99). *Handbook of Giftedness in Children Psycho-Educational Theory, Research, and Best Practices*. Kluwer Academic. <https://doi.org/10.1007/978-3-319-77004-8>
- Plucker, J. A. & Makel, M. C. (2018). Replication. In B. Frey (Ed), (pp. 1409-1412). *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation*. Sage Publications. <http://dx.doi.org/10.4135/9781506326139.n587>
- Makel, M. C. (2016). The empirical march: Making science better at self-correction [chapter, reprint]. In A. E. Kazdin (Ed.), (pp. 597-606). *Methodological Issues and Strategies in Clinical Research* (4th ed). American Psychological Association.
- Makel, M. C. & Plucker, J. A. (2014). School Choice. In J. A. Plucker & C. M. Callahan (Eds.), (pp. 545-552). *Critical Issues and Practices in Gifted Education: What the Research Says*. Prufrock Press.
- Plucker, J. A., Makel, M. C. (2010). Assessment of creativity. In J. C. Kaufman & R. J. Sternberg (Eds.), (pp. 48-73). *The Cambridge Handbook of Creativity*. Cambridge University Press.
- Makel, M. C. (2009). Implicit beliefs of future teachers about general ability. *Gifted Children*. Electronic Journal of the American Education Research Association Research on Giftedness and Talented SIG.
- Makel, M. C., & Plucker, J. A. (2009). Intelligence Theories. B. Kerr (Ed.), (pp. 480-484). *Encyclopedia of Giftedness, Creativity, and Talent*. Sage Publications.
- Makel, M. C., & Plucker, J. A. (2008). Creativity. In S. I. Pfeiffer (Ed.), (pp. 247-270). *Handbook of Giftedness in Children Psycho-Educational Theory, Research, and Best Practices*. Kluwer Academic.
- Makel, M. C., Slaubaugh, M., Qian, M., Change, Y., & Plucker, J. A. (2008). Advancing academic excellence: Expanding access and success in college-level courses in high school evaluation report. Prepared for the American Student Achievement Institute.
- Makel, M. C. (2008). Expertise. In J. A. Plucker & C. M. Callahan (Eds.), (pp. 213-224). *Critical Issues and Practices in Gifted Education: What the Research Says*. Prufrock Press.
- Makel, M. C., & Plucker, J. A. (2007). A review of *Nurturing Talent in High School: Life in the Fast Lane* by L. J. Coleman. *Gifted Child Quarterly*, 51, 206-209.
- Makel, M. C., & Plucker, J. A. (2007). An exciting – but not necessarily comprehensive – tour of the globe: A review of *The International Handbook of Creativity*. *Psychology of Aesthetics, Creativity, and the Arts*, 1, 49-51.
- Makel, M. C. (2006). Review of Gifted IQ: Early Developmental Aspects: The Fullerton Longitudinal Study. *Gifted Children: An Electronic Journal of the AERA SIG Research on Giftedness and Talent*, 1, 8.

- Plucker, J. A., Eckes, S., Rapp, K. E., Ravert, R., Hansen, J. A., Trotter, A., & Makel, M. C. (2005). Baseline evaluation of Georgia's charter schools program: Summary report. Prepared for the Georgia Department of Education.
- Plucker, J. A., Muller, P., Hansen, J. A., Ravert, R., & Makel, M. C. (2005). Evaluation of the Cleveland scholarship and tutoring program. Prepared for the Ohio Department of Education.
- Williams, W. M., Papierno, P. B., & Makel, M. C., & Ceci, S. J. (2004). Teaching children real-world thinking and reasoning. Fischer, C. B., & Lerner, R. M. (Eds.) *Applied developmental science: An encyclopedia of research, policies, and programs*. Sage.
- Makel, M. C., Papierno, P. B., & Williams, W. M. (2004). Growing up digital. A review of Calvert, S. L., Jordan, A. B., & Cocking, R. R. (Eds.), *Children in the digital age: The role of entertainment technologies in children's development*. *Contemporary Psychology*, 49, 277-279.

PUBLIC SCHOLARSHIP

- Makel, M. C. & Shah Coltrane, S. (March 21, 2021). Equity and excellence: Building NC's guidebook for Action.
<https://www.nagc.org/blog/equity-and-excellence-building-ncs-guidebook-action>
- Wai, J. & Makel, M. C. (November 2, 2020). Why graduates of elite universities dominate the Time 100-and what it means for the rest of us.
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<https://www.nagc.org/blog/stop-wasting-money-teaching-millions-students-content-they-already-know>
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- Makel, M. C. (May 9, 2016). Some history of the SAT.
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- Makel, M. C. (March 2, 2016). On registering for the SAT...again.
<https://blogs.tip.duke.edu/giftedtoday/2016/03/02/on-registering-for-the-satagain/>

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<https://blogs.tip.duke.edu/giftedtoday/2016/02/29/what-did-you-score/>
- Makel, M. C. (February 23, 2016). SAT as an above-level test.
<https://blogs.tip.duke.edu/giftedtoday/2016/02/23/sat-as-an-above-level-test/>
- Makel, M. C. (February 17, 2016). The new SAT vs. the old SAT.
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- Makel, M. C. (February 11, 2016). Research STUNT.
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- Plucker, J. A. & Makel, M. C. (November 3, 2015). The painful necessity of replicating research.
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<https://www.edweek.org/leadership/opinion-the-painful-necessity-of-replicating-research/2015/11>
- Wai, J. & Makel, M. C. (September 4, 2015). How do academic prodigies spend their time and why does that matter?
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PODCASTS

- Gifted Chat Podcast (June 18, 2022). Episode 6: Dr. Matt Makel: Why do we need gifted education?
https://open.spotify.com/episode/0HUGNUP0LsBrFsYmtKM1nV?si=hmhdDUtOObCh_qCNPvmRDg&nd=1
- APA Division 15 Podcast (May 3, 2021). Matthew C. Makel.
<https://soundcloud.com/user-883650452/matthew-c-makel>
- The Duke TIP Podcast. (March 9, 2018). Episode 6.
<https://podcasts.apple.com/us/podcast/w-dr-matthew-makel-duke-tip-director-of-research/id1229756180?i=1000416572253>
- Hi-Phi Nation. (March 14, 2017). S1, Episode 7: Hackademics II.
<https://hiphination.org/complete-season-one-episodes/episode-7-hackademics-ii-the-hackers/>

CONFERENCE PRESENTATIONS

- Claus, C., Makel, M. C., Yendell, O., & Budde, J. (2026, May). Exploring German and Canadian elementary school teachers' understandings of giftedness: An introduction to the concept of doing giftedness. Presented at the Wallace Symposium.
- Merello, P., Escobar, A., & Makel, M. C. (2026, May). Lost in terminology: Organizational use of non-diagnostic terms in spanish gifted and twice-exceptionality associations. Presented at the Wallace Symposium.
- Makel, M. C. (2026, April). Assessing the empirical support of characteristics lists of gifted students. Presented at the Annual Meeting of the American Educational Research Association.
- Makel, M. C., Gallagher, S. A., Wells, A., Plucker, J. A., & Jackson, P. S. (2025, November). Should we continue to use the word gifted? Presented at the Annual Meeting of the National Association for Gifted Children.

- Rinn, A. N., Mammadov, S., Rambo-Hernandez, K., & Makel, M. C. (2025, November). TED-style talks for the gifted education practitioner community. Presented at the Annual Meeting of the National Association for Gifted Children.
- Lee, L., Johnson, R. M., Cress, A., Matos, B., Wilkin-McCorey, D. M., Puryear, J. S., Rambo-Hernandez, K., Karcher, K. R., Makel, M. C., & Hill, T. D. (2025, November). R&E research-to-practice lightning talks. Presented at the Annual Meeting of the National Association for Gifted Children.
- Shah-Coltrane, S., Cross, E. G., Makel, M. C., Cyrus, S. R., & Brown, C. P. (2025, November). One state's journey toward expanding excellence. Presented at the Annual Meeting of the National Association for Gifted Children.
- Makel, M. C., Meyer, M. S., & Pei, M. (2025, October). Replication is possible and can be relevant and useful in qualitative research. the 1st Canadian Conference on Open Science and Open Scholarship. <https://zenodo.org/records/17382000>
- Makel, M. C. (2025, June). Can we trust characteristics lists of gifted students? Presented at the 4th thematic European Council for High Ability conference.
- Rambo-Hernandez, K. E., Makel, M. C., Koehler, N. (2025, April). Millions of students can (still) take a gap year: Achievement and variability in mathematics and reading. Presented at the Annual Meeting of the American Educational Research Association.
- Makel, M. C. (2024, November). We know less than we think about characteristics of gifted students. Presented at the Annual Meeting of the National Association for Gifted Children.
- Peters, S. J. & Makel, M. C. (2024, November). Talent for identifying talent: schools that succeed at equitable identification. Presented at the Annual Meeting of the National Association for Gifted Children.
- Stambaugh, T., Lee, L. E., & Makel, M. C. (2024, November). How does your identification system measure up? A framework for evaluating identification. Presented at the Annual Meeting of the National Association for Gifted Children.
- Johnson, R., Rambo-Hernandez, K. E., Makel, M. C., Dunne, O. M., Lamb, K., Meyer, M. S., Peters, P., Wells, A., Long, D. A., & Lee, L. E. (2024, November). Research to Practice Lightning Talks. Presented at the Annual Meeting of the National Association for Gifted Children.
- Jolly, J. & Makel, M. C. (2024, August). What do we teach in gifted education teacher training? Does it matter? Presented at the Asia-Pacific Conference on Giftedness.
- Makel, M. C. (2024, May). Gifted characteristics and other overused empirically empty terms. Presented at the Wallace Symposium.
- Peters, S. J., Makel, M. C., Carter, J. A. (2024, May). Traditionally underrepresented students are not always underrepresented: profiles of the most-equitable schools for students who are Black and Hispanic. Presented at the Wallace Symposium.
- Rambo-Hernandez, K., Pedersen, B. A., Peters, S. J., Makel, M. C., & Plucker, J. A. (2024, May). How much variability exists in classroom? Presented at the Wallace Symposium.
- Lee, L. E., McBee, M. T., Makel, M. C., Peters, S. J., McCoach, D. B., & Stambaugh, T. (2024, May). Using the equity explorer application for research. Presented at the Wallace Symposium.
- Peters, S. J., Lee, L. E., Stambaugh, T., Makel, M. C., McBee, M. T., & McCoach, D. B. (2024, May). The CASA criteria for program evaluation in gifted education. Presented at the Wallace Symposium.

- Lee, L. E., Stambaugh, T., Makel, M. C., Johnson, K. (2023, November). How does your identification system measure up? A framework for optimizing identification. Presented at the Annual Meeting of the National Association for Gifted Children.
- Rambo-Hernandez, K. E., Makel, M. C., Peters, S. J., Dixson, D. D., Long, D. A., Rinn, A. N., Foley Nicpon, M., Lee, H., Pereira, N., & Lee, L. E. (2023, November). Research-to-practice lightning talks: The latest research that practitioners need to know. Presented at the Annual Meeting of the National Association for Gifted Children.
- Makel, M. C., Peters, S. J., Stambaugh, T., Lee, L. E., McBee, M., McCoach, D. B., & Johnson, K. R. (April, 2023). Identification rates of English Learners and twice-exceptional students: Targeted equity gains require targeted equity actions. Presented at the Annual Meeting of the American Educational Research Association.
- Lee, L. E., Stambaugh, T., Peters, S. J., Makel, M. C., McCoach, D. B., McBee, M., & Johnson, K. R. (April, 2023). Implementing the cost, alignment, sensitivity, and access criteria in identification systems: A case study of one district. Presented at the Annual Meeting of the American Educational Research Association.
- Makel, M. C. & Lee, L. E. (2023, February). CASA criteria: A framework for evaluating GT identification on: Cost, alignment, sensitivity, and access. Presented at the North Carolina Association. For Gifted Children.
- Makel, M. C. Rambo-Hernandez, K. E., Dixson, D. (November, 2022). Collaborative hackathon to assess existing mindsets. Presented at the Annual Meeting of the National Association for Gifted Children.
- Plucker, J. A., Meyer, M. S., & Makel, M. C. (November, 2022). Creativity assessment: Recent advances and future directions. Presented at the Annual Meeting of the National Association for Gifted Children.
- Shah-Coltrane, S., Cross, B., Cyrus, S. R., & Makel, M. C. (November, 2022). Pathway to equity and excellence. Presented at the Annual Meeting of the National Association for Gifted Children.
- McCoach, D. B., Makel, M. C., Steltenpohl, C. N., Adelson, J. L., Matthews, M. S., & Buchanan, E. M. (April, 2022). Open Science 201: Research Life Cycle From Various Stakeholder Perspectives. Presented at the Annual Meeting of the American Education Research Association.
- Pedersen, B., Rambo-Hernandez, K. E., Makel, M. C., Peters, S. J., & Plucker, J. A. (April, 2022). The Range of Instructional Need Within U.S. Grade 4 Mathematics Classrooms. Presented at the Annual Meeting of the American Education Research Association.
- Makel, M. C., Rinn, A. N., Matthews, M. S., Rambo-Hernandez, K. E. (November, 2021). Registered Reports in Giftedness Research: Irrelevant Fad or Exciting Future Opportunity? Presented at the Annual Meeting of the National Association for Gifted Children.
- Rambo-Hernandez, K. E., Makel, M. C., Peters, S. J., & Worley, C. (November, 2021). Differential Return on Investment: Not all Students Equally Benefit from School. Presented at the Annual Meeting of the National Association for Gifted Children.
- Cross, B., Shah-Coltrane, S., Cyrus, S. R., & Makel, M. C., (November, 2021). Call to Action: A Guidebook to Realizing Equity & Excellence in Gifted Education. Presented at the Annual Meeting of the National Association for Gifted Children.
- Makel, M. C., Mellor, D., Alexander, P. A., & Martinez, C. R. (April, 2021). How Should We Navigate Open Science in Educational Research? Brainstorming, Conversation, Debate,

- and Problem-Solving. Presented at the Annual Meeting of the American Educational Research Association.
- Almhawes, H., Jolly, J. L., Matthews, M. S., & Makel, M. C. (April, 2021). Understanding Homeschool Parents' Curriculum Choices. Presented at the Annual Meeting of the American Educational Research Association.
- Montoya, A., Makel, M. C., Cook, B. G., & Smith, K. (April, 2021). Open access and preprints. Presented at the Annual Meeting of the American Educational Research Association.
- Rambo-Hernandez, K. H., Makel, M. C., Peters, S. J., & Worley, C. (April, 2021). Differential Return on Investment: Academic Growth Based on Initial Performance. Presented at the Annual Meeting of the American Educational Research Association.
- Rambo-Hernandez, K. H., Peters, S. J., Plucker, J. A., Makel, M. C., & Pedersen, B. (April, 2021). How Academically Diverse Is the "Grade-Level" Classroom? Presented at the Annual Meeting of the American Educational Research Association.
- Miller, E. M., Makel, M. C., Wilson, B., Snyder, K., Adelson, J. L., Peters, S. J. (April, 2021). Misconceptions, Misunderstandings, and Myths of Gifted Education. Presented at the Virginia Consortium of Gifted Education Administrators.
- Adelson, J. L., Makel, M. C., Wilson, B., Snyder, K., Peters, S. J. (March, 2021). Panel on Confronting Pseudoscience in Gifted Education. Presented at the North Carolina Association. For Gifted Children.
- Adelson, J. L., Makel, M. C., Shah-Coltrane, S., Cyrus, S. R., & Cross. B. (2020, November). Critical actions to realize equity & excellence: Changing mindsets, policies, & practices. Presented at the annual meeting of the National Association for Gifted Children.
- Adelson, J. L., Robinson, A., Makel, M. C., Olszewski-Kubilius, P., Steenbergen-Hu, S., & Little, C. A. (2020, November). Programs to identify and serve high-achieving students with economic need. Presented at the annual meeting of the National Association for Gifted Children.
- Makel, M. C., Tay, J., Adelson, J. L., Dixson, D. D., Jolly, J. L., Plucker, J. A., Steenbergen-Hu, S., Wilson, H. E. (2019, November). Lightning Talks: Programs and services for gifted children. Presented at the annual meeting of the National Association for Gifted Children. Albuquerque, NM.
- Young, S., Andrew, P., Cerrato-Amador, T., Cooper, B., & Makel, M. C. (2019, November). Achieving lift off: Project Launch interventions to serve gifted, low-income students. Presented at the annual meeting of the National Association for Gifted Children. Albuquerque, NM.
- Peters, S. J., Rambo-Hernandez, K. E., Makel, M. C., Matthews, M. S., & Plucker, J. A. (2019, November). Want to improve racial/ethnic representation rates? Use building norms. Presented at the annual meeting of the National Association for Gifted Children. Albuquerque, NM.
- Jolly, J. L., Matthews, M. S., & Makel, M. C. (2019, November). Homeschooling of academically talented students. Presented at the annual meeting of the National Association for Gifted Children. Albuquerque, NM.
- Rambo-Hernandez, K. E. & Makel, M. C. (2019, April). Differential return on investment: Academic growth based on initial performance. Presented at the annual meeting of the American Education Research Association, Toronto, CA.
- Peters, S. J., Rambo-Hernandez, K. E., Makel, M. C., Matthews, M. S., & Plucker, J. A. (2019, April). The effect of local norms on racial representation in gifted education: A modeling

- study. Presented at the annual meeting of the American Education Research Association, Toronto, CA.
- Makel, M. C., Assouline, S., Dai, D., Snyder, K., Amspaugh, C., Seward, K., Anderson, B., McBee, M. T., Peters, S. J., & Plucker, J. A. (2018, November). Lightning talks: Research evidence for classroom use. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- Makel, M. C., Snyder, K., Amspaugh, C., Seward, K., McBee, M. T., & Plucker, J. A. (2018, November). Lightning talks: Research for parents. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- Wai, J., Hodges, J., & Makel, M. C. (2018, November). Sex differences in ability tilt in the right tail of cognitive abilities. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- McBee, M. T., Makel, M. C., Matthews, M. S., & Peters, S. J. (2018, November). Bringing open science practices to gifted education research. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- Wai, J., Hodges, J., & Makel, M. C. (2018, November). Sex differences in ability tilt in the right tail of cognitive abilities: A 35-year examination. Presented at the Wallace Symposium, Baltimore, MD.
- Makel, M. C., Olszewski-Kubilius, P., Subotnik, R. F., & Plucker, J. A. (2018, April). Making research understandable and actionable to nonresearchers. Presented at the annual meeting of the American Education Research Association, New York, NY.
- McBee, M. T., McCoach, D. B., Makel, M. C., & Godkin, N. L. (2018, April). On the origin of the Matthew Effect: Insights from a quantitative theoretical model. Presented at the annual meeting of the American Education Research Association, New York, NY.
- Subotnik, R., Makel, M. C., & Olszewski-Kubilius, P. (2017, November). Top 20 principles from psychology for pre-K-12 creative, talented, and gifted students' teaching and learning. Presented at the annual meeting of the National Association for Gifted Children, Charlotte, NC.
- Peters, S. J., Makel, M. C., Plucker, J. A., & Matthews, M. T. (2017, November). How many American students are above grade level? Presented at the annual meeting of the National Association for Gifted Children, Charlotte, NC.
- Plucker, J. A., Clinkenbeard, P., Makel, M. C., & Subotnik, R. (2017, August). Top 20 principles of psychology in education applied to creative and gifted students. Presented at the annual meeting of the American Psychological Association, Washington, DC.
- Snyder, K. E., Makel, M. C., Adelson, J., & Barger, M. M. (2017, April). Challenging Conventional "Wisdom": Implicit Beliefs about Giftedness and Intelligence among Preservice Teachers. Presented at the annual meeting of the American Education Research Association, San Antonio, TX.
- Makel, M. C. & Matthew, M. S. (2017, March). Magnifying Possibilities: Zoom in on the Vision. Presented at the annual meeting of the North Carolina Association for the Gifted & Talented, Winston-Salem, NC.
- Foley-Nicpon, M. & Makel, M. C. (2016, November). Research and statistics made easy (and relevant!). Presented at the annual meeting of the National Association for Gifted Children, Orlando, FL.

- Wai, J., & Makel, M. C. (2016, November). Do brain games really make you smarter? The research behind them and how to evaluate them. Presented at the annual meeting of the National Association for Gifted Children, Orlando, FL.
- Makel, M. C., Wai, J., Peairs, K., & Putallaz, M. (2016, April). Sex differences in the right tail of cognitive abilities: An update and cross-cultural extension. Presented at the annual meeting of the American Education Research Association, Washington D.C.
- Makel, M. C. & McBee, M. (2016, April). What proportion of people are gifted? Examining the consequences of theoretical definitions. Presented at the annual meeting of the American Education Research Association, Washington D.C.
- McBee, M., McCoach, D. B., & Makel, M. C. (2016, April). A theory of achievement growth based on Vygotsky's zone of proximal development. Presented at the annual meeting of the American Education Research Association, Washington D.C.
- Makel, M. C. & Snyder, K. E. (2015, November). Everything you ever wanted to know about research but were too afraid to ask. Presented at the annual meeting of the National Association for Gifted Children, Phoenix, AZ.
- Steenbergen-Hu, S., Makel, M. C., & Olszewski-Kubilius, P. (2016, November). What one hundred years of research says about the effects of ability grouping and acceleration on students' academic achievement: Findings of a second-order meta-analysis of 35 meta-analyses. Presented at the annual meeting of the National Association for Gifted Children, Phoenix, AZ.
- Peairs, K., Putallaz, M., Cacchio, M., & Makel, M. C. (2015, November). An exploration of the academic and career trajectories of mathematically gifted females. Presented at the annual meeting of the National Association for Gifted Children, Phoenix, AZ.
- Lupkowski-Shoplik, A., Rushneck, A., Rosen, R., Jackson, M., & Makel, M. C. (2015, November). Critical components of successful talent development trajectories: illustrations of how research based assessment, programming and outside-of-school opportunities affected the paths of gifted students. Presented at the annual meeting of the National Association for Gifted Children, Phoenix, AZ.
- Makel, M. C., Kell, H., Lubinski, D., Putallaz, M., Benbow, C. P. (2015, April). Identifying profound human capital expressly and reliably during early adolescence: A 25-year longitudinal study. Presented at the annual meeting of the American Education Research Association, Chicago, IL.
- Makel, M. C., Thomas, C., Snyder, K. E., & Putallaz, M. (2015, April). Implicit beliefs about giftedness and intelligence among gifted students: A cross-cultural study. Presented at the annual meeting of the American Education Research Association, Chicago, IL.
- Makel, M. C., McBee, M., Callahan, C. M., & Plucker, J. A. (2014, November). Research quality equals research credibility. Presented at the annual meeting of the National Association for Gifted Children, Baltimore, MD.
- Makel, M. C., Kell, H., Lubinski, D., Putallaz, M., & Benbow, C. (2014, November). Following who rises to the top: A 25-year longitudinal study of profoundly gifted students and the development of human capital. Presented at the annual meeting of the National Association for Gifted Children, Baltimore, MD.
- Makel, M. C. (2014, August). The empirical march: Making science better at self-correction. Presented at the annual meeting of the American Psychological Association, Washington, DC.

- Makel, M. C. & Plucker, J. A. (2014, April). Replicating education research: Is second place just the first place loser? Presented at the annual meeting of the American Education Research Association, Philadelphia, PA.
- Makel, M. C. (2014, April). Academic self-concept of academically talented students: What can't go up and still doesn't come down. Presented at the annual meeting of the American Education Research Association, Philadelphia, PA.
- Makel, M. C., Wai, J., & Putallaz, M. (2014, March). The time allocation of academically talented students: An international comparison. Presented at The Wallace Symposium, Washington D.C.
- Steenbergen-Hu, S., Makel, M.C., & Olszewski-Kubilius, P. (2014, March). What one hundred years of research says about the effects of ability grouping and acceleration on students' academic achievement: Findings from a comprehensive synthesis of meta-analyses. Presented at The Wallace Symposium, Washington D.C.
- Peairs, K., Putallaz, M., & Makel, M. C. (2014). Risky business: An examination of gifted children with significant peer problems. Presented at The Wallace Symposium, Washington D.C.
- Makel, M. C., Wai, J., & Putallaz, M. (2014, February). Talent development in two countries: Time allocation in India and the U.S. Presented at the First International Conference on Research in Education and Curriculum Planning for Gifted Minds, Delhi, India.
- Makel, M. C. (2013, April). Reflections on the Giftedness Pond: Self-Concept Theories and Talent Development. Presented at the annual meeting of the American Education Research Association, San Francisco, CA.
- Makel, M. C. & Plucker, J. A. (2013, April). Replications in Giftedness and Creativity Research. Presented at the annual meeting of the American Education Research Association, San Francisco, CA.
- Peairs, K., Makel, M. C., Putallaz, M., & Costanzo, P. (2013, November). Leader of the Pack: Academic giftedness and leadership in early adolescence. Presented at the annual meeting of the National Association for Gifted Children, Indianapolis, IN.
- Makel, M. C., Peairs, K., & Putallaz, M. (2012, November). Gifted in the news: What the rest of the world knows about gifted education. Presented at the annual meeting of the National Association for Gifted Children, Denver, CO.
- Peairs, K., Putallaz, M. & Makel, M.C. (2012, November). The gifted victim: Profile analysis of gifted adolescents who experience peer rejection and victimization. Presented at the annual meeting of the National Association for Gifted Children, Denver, CO.
- Makel, M. C., Wai, J., & Putallaz, M. (2012, April). Time allocation of academically talented students: An international comparison. Presented at the annual meeting of the American Education Research Association, Vancouver, CA.
- Makel, M. C., & Matthews, M. (2011, November). Introduction and application of program evaluation in the gifted education context. Presented at the annual meeting of the National Association for Gifted Children, New Orleans, LA.
- Makel, M. C., Li, Y., Putallaz, M., Wai, J. (2011, April). High ability students' time spent outside the classroom. Presented at the annual meeting of the American Education Research Association, New Orleans, LA.
- Makel, M. C., Putallaz, M., Cacchio, M., & Flanagan, K. (2010, November). A cross-cultural evaluation of a summer residential program for Indian and U.S. talented students.

- Presented at the annual meeting of the National Association for Gifted Children, Atlanta, GA.
- Makel, M. C., Li, Y., Putallaz, M., & Wai, J. (2010, November). Gifted kids' time spent outside the classroom. Presented at the annual meeting the National Association for Gifted Children, Atlanta, GA.
- Wai, J., Makel, M. C., Cacchio, M., & Putallaz, M. (2010, November). Summer academic programs and longitudinal educational-vocational outcomes among the exceptionally gifted. Presented at the Annual Meeting of the National Association for Gifted Children, Atlanta, GA.
- Makel, M. C., Li, Y., Putallaz, M., & Wai, J. (2010, May). Gifted students' time spent outside the classroom. Presented at the Wallace Symposium, Iowa City, IA.
- Makel, M. C., Rojas, E., Flanagan, K. E., Cacchio, M., & Putallaz, M. (2010, May). A cross-cultural evaluation of a summer residential program for Indian and U.S. talented students. Presented at the Wallace Symposium, Iowa City, IA.
- Makel, M. C., & Malin, J. (2010, April). Dear Mr. President: Gifted students' advice on solving the world's problems. Presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- Makel, M. C., Rojas, E., Flanagan, K. E., Cacchio, M., & Putallaz, M. (2010, March). International comparisons of student perceptions: U.S. and Indian gifted students' perceptions of their academic and social worlds. Presented at the biennial meeting of the Society for Research on Adolescence.
- Makel, M. C., & Courtright, R. (2010, February). Truths, truthiness, & myths: The research behind the AIG program standards. Presented at the annual meeting of the North Carolina Association for Gifted and Talented.
- Cramond, B., Daniels, S., Kaufman, J. A., Kim, K. H., Makel, M. C., & Matthews, M. (2009, November). Championing creativity in the classroom. Presented at the annual meeting of the National Association for Gifted Children, Tampa, FL.
- Cramond, B., Daniels, S., Kaufman, J. A., Kim, K. H., Makel, M. C., & Matthews, M. (2009, November). Keys to classroom creativity. Presented at the annual meeting of the National Association for Gifted Children, Tampa, FL.
- Brown, C. L., Plucker, J. A., & Makel, M. C. (2009, April). A randomized control trial of full-day and half-day kindergarten. Presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Makel, M. C. (2008, November). I think I can: The influence of implicit beliefs on creative performance. Presented at the annual meeting of the National Association for Gifted Children, Tampa, FL.
- Plucker, J. A., Makel, M. C., & Hegarty, C. B. (2008, November). Not everything is new under the sun: The importance of replications in gifted research. Presented at the annual meeting of the National Association for Gifted Children, Tampa, FL.
- Plucker, J. A., Brown, C. L., & Makel, M. C. (2008, June). An experimental design evaluation of full-day kindergarten. Presented at the Institute of Education Sciences Research Conference, Washington DC.
- Makel, M. C., Brown, C. L., Schmalensee, S., & Plucker, J. A. (2008, March). The Pepsi challenge for curriculum based measures: DIBELS versus AIMSweb taste test. Presented at the annual meeting of the American Educational Research Association, New York.

- Brown, C. L., Makel, M. C., & Plucker, J. A. (2008, March). Non-achievement data from a randomized control trial of full-day and half-day kindergarten. Presented at the annual meeting of the American Educational Research Association, New York.
- Plucker, J. A., Brown, C. L., & Makel, M. C. (2008, March). Achievement data from a randomized control trial of full-day and half-day kindergarten. Presented at the annual meeting of the American Educational Research Association, New York.
- Plucker, J. A., Brown, C. L., & Makel, M. C. (2008, March). Student Achievement in a Randomized Control Trial of Full-Day and Half-Day Kindergarten. Presented at the annual meeting of the Society for Research on Educational Effectiveness, Washington D.C.
- Makel, M. C., Plucker, J. A., Reynolds, S. (2007, November). Impact of an intervention to increase academic acceleration of disadvantaged students. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- Shen, J., Makel, M. C., Qian, M., & Plucker, J. A. (2007, November). Teachers' conceptions of creative students in China. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.
- Plucker, J. A., Brown, C. L., Muller, P. A., Makel, M. C., & Holden, J. E. (2007, June). An experimental design evaluation of full-day kindergarten. Presented at the Institute of Education Sciences Research Conference, Washington DC.
- Muller, P. A., & Makel, M. C. (2007, May). Education evaluation and practices in the United States. Presented at the International Conference on School Academic Performance and Teachers' Professional Development at Beijing Normal University. Beijing, China.
- Makel, M. C. (2006, November). Student and parent attitudes before and after the gifted identification process. Presented at the annual meeting of the National Association for Gifted Children, Charlotte, NC.
- Plucker, J. A., Muller, P. A., Makel, M. C., Hansen, J. A., & Ravert, R. (2006, April). Impact of a voucher program on academic achievement: Findings from the seven-year longitudinal study. Presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Makel, M. C., Williams, W. M., & Ceci, S. J. (2005, May). Gifted identification process attenuates positive attitudes of gifted and non-gifted participants. Presented at the annual meeting of the American Psychological Society, Los Angeles, CA.

INVITED TALKS

- Makel, M. C. (2026, May). Giftedness: Removing barriers to knowns and unknowns. Presented at the Wallace Symposium.
- Makel, M. C. (2025, October). Access and Excellence in Gifted Education: Critical Actions to Changing Mindsets, Policies, and Practices. Iowa Talented and Gifted.
- Makel, M. C. (2025, June). Goals in Education. Queen Elizabeth High School Calgary Parent Association.
- Makel, M. C. (2025, May). A Researcher's Wish List of Things A Parent Should Know. Colorado Association for Gifted and Talented.
- Makel, M. C. (2025, April). Tools for Evaluating Gifted Identification Practices. Presented at the Colorado Exceptional Student Services Unit Directors Meeting.

- Makel, M. C. (2025, March). Querying characteristics lists: Next steps in assessing empirical evidence. Presented at the Fifth North American and European Talent Development Summit.
- Makel, M. C. (2025, March). Be Open to Change you want to see in the Open Science World. University of Calgary Knowledge to Impact Team.
- Makel, M. C. (2025, March). Goals of Gifted Education. Calgary GATE Parent Association Program.
- Rambo-Hernandez, K. E., McCoach, D. B., Peters, S. J., Makel, M. C., Long, D. A., & Lee, L. E. (2024, November). Local norms for local programs: Introduction, identification, and implementation. Presented at the Annual Meeting of the National Association for Gifted Children.
- Makel, M. C. (2024, November). Planning and Taking Action Effectively. Presented to the Council of State Directors of Programs for the Gifted.
- Makel, M. C. (2024, October). The potential for longitudinal follow up of academic talent. Presented at the meeting of the Institute of Gifted Child of the National Academy of Educational Sciences of Ukraine.
- Makel, M. C. (2024, October). Evaluating Action Effectively. Presented to the Council of State Directors of Programs for the Gifted.
- Makel, M. C. (2024, September). From Individuals to Systems: Growing Gifted Programs. Directors of Special Education and Gifted Education Fall Meeting.
- Makel, M. C. (2024, June). Setting and Achieving Realistic and Research-Informed Goals. [Keynote] Whitworth University Summer 2024 Teaching for Learning Institute.
- Makel, M. C. (2023, April). Reflecting to Reach New Heights. [Keynote] North Carolina Department of Public Instruction Academically and Intellectually Gifted Coordinators Institute.
- Makel, M. C. (2023, February). Open Science Roundtable. Department of Advanced Studies in Education, Johns Hopkins University.
- Makel, M. C. (2022, September). Increasing Understanding and Action Through Open Scholarship. University of Arkansas EDRE Lecture Series.
- Makel, M. C. (2022, September) A broad tour of gifted identification. Guest Lecture, Mississippi State University.
- Makel, M. C. (2022, April). Gifted Education from a Superintendent's Perspective. Western Kentucky University Victoria Fellows annual meeting.
- Makel, M. C. (2022, February). Deep Dive on Open Practices: Understanding Replication in Education Research. Virtual Unconference on Open Scholarship Practices in Education Research.
- Gehlbach, H., Makel, M. C., & Choudhury, S. (2021, September). Open Science. Johns Hopkins School of Education Office of Diversity & Faculty Development.
- Reedy, M., Makel, M. C., Wong, V., & Grant, S. (2021, September). Panel discussion on implementing open science practices in educational research. Annual meeting of Society for Research on Educational Effectiveness.
- Makel, M. C., Mellor, D., Alexander, P. A., & Martinez, C. R. (April, 2021). How Should We Navigate Open Science in Educational Research? Brainstorming, Conversation, Debate, and Problem-Solving. Presented at the Annual Meeting of the American Educational Research Association.

- Makel, M. C., Miller, E. M., Carter, J., & Peters, S. J. (2021, February). Deep dive into open scholarship: Collaboration and replication. Virtual Unconference on Open Scholarship Practices in Education Research.
- Makel, M. C. (2020, December). Questionable and open research practices in education research. Association for Interdisciplinary Meta-research and Open Science.
- Wilson, H. E., Adelson, J. L., Snyder, K. E., Miller, E. M., Makel, M. C., & Renbarger, R. (2020, November). Confronting pseudoscience in gifted education: What we used to believe and what we know now. Presented at the annual meeting of the National Association for Gifted Children.
- Peters, S. J., Rambo-Hernandez, K. E., & Makel, M. C. (2020, September). Expert Talks: Registered Reports. Webinar series for NAGC R&E & AERA ROGCT Graduate Students.
- Makel, M. C. & Shah-Coltrane, S. (2020, July). Realizing Equity and Excellence in Gifted Education: Changing Mindsets, Practices, and Policies. Friday Institute Equity and Excellence.
- Makel, M. C. (2018, November). Identification of under-represented populations: Good intentions and unintentional consequences. Council of State Directors of Programs for the Gifted, Minneapolis, MN.
- Makel, M. C. (2018, October). Aligning values, evidence, and communication to create effective gifted education. Presented to the Minnesota Council for the Gifted & Talented, Minneapolis, MN.
- Makel, M. C. (2018, October). Bringing the credibility revolution to talent development research. Presented at the 2nd European-American Summit on Talent Development, Nuremberg, Germany.
- Makel, M. C. (2018, April). SMPY: Magnitude and pattern. Presented at the Wallace Symposium. Baltimore, MD.
- Makel, M. C. & McBee, M. T. (2017, November). Identification of under-represented populations: Good intentions and unintentional consequences. Council of State Directors of Programs for the Gifted, Charlotte, NC.
- Makel, M. C. (2016, September). Developing talent and trust in research. The Julian C. Stanley Professor of Talent Development Inaugural Colloquium. Baltimore, MD.
- Makel, M. C. (2016, April). Assessment of talent development contexts outside of school. Presented at the Inaugural Invitational European/American Summit on Talent Development. Washington DC.
- Makel, M. C., Plucker, J. A., Pigott, T. D., & Duncan, G. (2015, April). Perspectives on replication in education. Presented at the annual meeting of the American Education Research Association, Chicago, IL.
- Plucker, J. A., & Makel, M. C. (2015, March). Identifying the Need for and Assessing the Quality of Replications in Education Research. Presented at Methods at Midday for the National Science Foundation, Arlington, VA.
- Makel, M. C. (2014, November). Recent research on identifying gifted students. Presented at North Carolina DPI AIG Think Tanks.
- Makel, M. C. (2012, June). Truths, truthiness & myths: The research behind the AIG Program Standards. Presented at the January meeting of the Durham PAGE group, Durham, NC.

OTHER TALKS

- Makel, M. C. (2026, May). Tips for consuming research on giftedness from someone who helps create it. Calgary GATE Parent Association Program.
- Makel, M. C. (2026, April). Programming, Professional Learning, and Instruction for Gifted Learners. (Discussant) at the annual meeting of the American Education Research Association, Los Angeles, CA.
- Makel, M. C. (2026, January). What Does Success Look Like in Gifted Education? If We Don't Know Where We Are Going, How Will We Get There? Westmount Charter School Professional Learning Day.
- Makel, M. C. (2025, March). Gifted student health and well-being: The latest beliefs and findings. ACHRI Child Health Series Seminar.
- Makel, M. C. (2024, September). Managing Change in Gifted Education. Directors of Special Education and Gifted Education Fall Meeting in Colorado.
- Makel, M. C. (2024, June). Aligning Domain, Level and Dose. Whitworth University Summer 2024 Teaching for Learning Institute.
- Makel, M. C. (2024, June). The Many Ways of Local Norms Implementation. Whitworth University Summer 2024 Teaching for Learning Institute.
- Makel, M. C. (2024, April). Bridging the Chasm between Research and Practice. Calgary Board of Education Staff Gifted Education Meeting.
- Makel, M. C. (2023, May). Ability Grouping and Acceleration. Presented at the meeting for NorthEast AIG Coordinators in North Carolina.
- Makel, M. C., Grant, S., Rifenburg, G., & McCoach, D. B. (2023, March). What's your wish list? Join the federation of education hubs to prioritize actions and needs. Presented at the Unconference on Open Scholarship Practices in Education Research.
- Makel, M. C. (2022, November). Open Science Introductory Briefs. Johns Hopkins University School of Education Edfest.
- Makel, M. C. (2022, November). Acceleration: Research and Persuasion. Pitt County Schools.
- Cross, E. & Makel, M. C. (2020, November). Equity and excellence: Role analysis and next steps. North Carolina Department of Public Instruction AIG Fall Institute.
- Cyrus, S. & Makel, M. C. (2020, March). Critical action: Provide a range of services within a program. North Carolina Department of Public Instruction AIG Spring Institute.
- Makel, M. C. (2019, May). Adulthood professional and personal outcomes of academically talented individuals. Duke TIP Grand Recognition Ceremony, Durham, NC.
- Makel, M. C. (2017, July). From theory to practice: Serving talented students. Presented at the Educational Excellence: Inspiring Global Leaders Educator Symposium, Kunshan, China.
- Makel, M. C. (2016, September). Invisible talent: We don't see what we don't look for. Duke Social Psychology Department Brown Bag Lunch Series. Durham, NC.
- Makel, M. C. (2016, July). Research on giftedness: What do we know? Presented at Duke TIP Educator Symposium on Global Perspectives, Kunshan, China.
- Chen, S., & Makel, M. C. (2016, July). Identification and assessment through adaptive testing. Presented at Duke TIP Educator Symposium on Global Perspectives, Kunshan, China.
- Makel, M. C. (2016, June). My career studying academic talent. VIP Fellows program in the Psychology and Neuroscience Dept. Durham, NC.
- Makel, M. C. (2015, July). Research on giftedness: What do we know? Presented at Duke TIP Educator Symposium on Global Perspectives, Kunshan, China.

- Makel, M. C. (2015, June). Research perspectives on giftedness. Duke TIP Educator Institute, Durham, NC.
- Makel, M. C. (2014, March). The Time Allocation of Academically Talented Students: An International Comparison. Presented at the Wallace Symposium, Washington D.C.
- Makel, M. C. (2013, April). Creativity and STEM Education for Advanced Learners (Discussant) at the annual meeting of the American Education Research Association, San Francisco, CA.
- Makel, M. C. (2013, February). Characteristics of Giftedness. Presented at Duke TIP-Shiv Nadar University's Identifying and Serving Academically Gifted Students, Delhi, India.
- Makel, M. C. (2013, February). Identification of Academically Gifted Students. Presented at Duke TIP-Shiv Nadar University's Identifying and Serving Academically Gifted Students, Delhi, India.
- Makel, M. C. (2013, February). In-School and Out-of-School Learning. Presented at Duke TIP-Shiv Nadar University's Identifying and Serving Academically Gifted Students, Delhi, India.
- Makel, M. C. (2013, February). Formative and Summative Assessments and High-Stakes Testing. Presented at Duke TIP-Shiv Nadar University's Identifying and Serving Academically Gifted Students, Delhi, India.

SELECT GRANTS & CONTRACTS

- 2025-2030 U.S. Department of Education "National Research Center: Advanced Education" (Co-PI: \$5,000,000).
- 2025-2026 Calgary Board of Education "GATE Literature Review". (PI: \$10,000 CAD).
- 2023-2028 U.S. Department of Education Javits Grant, "Innovations in Discovering and Developing Talented Twice-Exceptional Students" (S206A230021, Consultant: \$68,974, budgeted portion).
- 2021-2025 U.S. Department of Education Javits Grant, "Optimal Gifted and Talented Student Identification: Maximizing Efficacy, Efficiency, and Equity" (S206A200007, Instructional Designer: \$2,486,164).
- 2021-2022 Johns Hopkins School of Education Faculty Senate, "Open Science Introductory Briefs" (PI: \$1,500).
- 2020 North Carolina Department of Public Instruction, "Equity and Excellence Briefs Phase II and Response to COVID-19" (PI: \$8,500).
- 2019-2024 U.S. Department of Education Javits Grant, "Project Launch Plus" (S206A200038 PI, 2019-2023: \$2,186,129).
- 2019-2020 Jack Kent Cooke Foundation, "Project Launch" (PI: \$150,000).
- 2018-2019 Jack Kent Cooke Foundation, "Project Launch" (PI: \$150,000).
- 2017-2018 American Psychological Foundation, Esther Katz Rosen Grant. "Calculating Characteristics in Gifted Students" (PI: \$45,000).
- 2017-2018 Jack Kent Cooke Foundation, "Project Launch" (PI: \$200,000).
- 2003-2004 Cornell University College of Human Ecology and Department of Human Development Master's Research College Grant. "Prospective Attitudes Assessment of Potentially Gifted Youth" (PI: \$1,100).

TEACHING AND MENTORING

Instructor

Assessment, University of Calgary, Winter 2024-Present
Advanced Research Methodologies II (graduate), Winter 2024, 2025
The Research Landscape (graduate), Johns Hopkins University, Fall 2022
Research in Gifted Education and Talent Development (graduate), Johns Hopkins, Spring 2022,
Spring 2023
Learning: Theory into Practice (undergraduate), Indiana University, Fall 2007, Spring 2008
Human Intelligence, (academic talent program), Duke University TIP, Summer 2006

Teaching Assistant

Adulthood and Aging (undergraduate), Cornell University, Spring 2005
Risk and Opportunity Factors in Childhood and Adolescence, (undergraduate), Cornell
University, Spring 2003
Gender and Sexual Minorities (undergraduate), Cornell University, Fall 2002
Social Psychology (academic talent program), Duke University TIP, Summer 2001
Introductory Psychology (academic talent program), Duke University TIP, Summer 2001

Mentoring

Postdoctoral Researcher
Jaret Hodges, Duke University, 2017-2019

Doctoral dissertation committees

Mary Simonsen (Johns Hopkins University), member (defended 2025)
Monica Meadows (University of Arkansas at Little Rock), member (defended 2018)

PROFESSIONAL MEMBERSHIPS

American Education Research Association (AERA)
National Association of Gifted Children (NAGC)
Society for the Improvement of Psychological Science (SIPS)
Association for Interdisciplinary Meta-Research and Open Science (AIMOS)
Society for Research on Educational Effectiveness (SREE)

UNIVERSITY AND DEPARTMENTAL SERVICE

2025-Present Founder, International Scholars Network, University of Calgary
2025-Present WSE Internationalization Advisory Committee
2025 WSE Assessment Course Redesign Committee
2024-2025 Werklund EDSA Structure Working Group
2024 University of Calgary Libraries & Cultural Resources Faculty Tenure &
Promotion Committee
2024 One Child Every Child Strategic Catalyst Award Reviewer
2024 Werklund Research Chair Review Committee
2024 Werklund EDSA Governance Review Working Group
2024-Present Werklund Advisory for Institutional Research Directives (AIRD)
2023-Present Werklund Research Advisory Committee
2023-2024 Werklund Scholars Academy
2023-Present Werklund College of Reviewers
2023 Werklund Faculty Assessment Committee

2023-2024 Werklund new faculty search committee
 2022-2023 JHU SOE PhD Applicant Prescreen Review
 2021-2023 JHU SOE Faculty and Budgetary Affairs Committee
 2020 Duke University COVID-19 Testing site supervision
 2020 TIP Diversity, Equity, and Inclusion Council
 2019-2020 Duke Reader Project
 2018-2020 TIP Executive Leadership Team
 2018 TIP Director of Academics Search Committee
 2017-2018 TIP Strategic Planning Committee
 2016-2017 TIP Research Communication Committee, co-Chair
 2015 TIP IT Vendor Review Committee
 2015 TIP History Committee
 2012-2015 TIP Volunteer Committee
 2011-2012 TIP Residential Program Coordinator Search Committee
 2010-2015 TIP Archival Committee
 2010-2012 TIP Website Review Committee
 2009 TIP Social Networking Committee
 2008-2015 TIP Holiday Planning Committee
 2008-2013 TIP Staff Advisory Committee
 2008-2018 TIP 4th-6th Grade Talent Search Essay Contest
 2003-2004 Human Development Brown Bag Committee, Cornell University
 2002-2003 Human Development Prospective Student Weekend Committee, Cornell University
 2002-2004 Human Development Graduate Studies Committee, Cornell University

PROFESSIONAL SERVICE

2025-Present Founding Chair of Open Scholarship SIG of AERA
 2025-2026 *Gifted Child Quarterly* Editor Search Committee
 2024-Present NAGC Convention Committee
 2024 NAGC Grouping Position Statement Revision
 2021-2024 EdArXiv Fundraising Chair
 2020-2025 National Center for Research on Gifted Education, National Advisory Board
 2020-2023 Education Research Hub Steering Committee
 2020-2023 Virtual Unconference Open Scholarship Practices in Education Research Planning Committee
 2020-2021 EdArXiv Steering Committee Chair
 2020 NAGC Research Roundtable on non-faculty research jobs
 2020 NAGC Convention Visioning Advisory Group
 2019-2024 EdArXiv Steering Committee
 2019 NAGC Executive Director Search Committee
 2019 NAGC Research Roundtable on non-faculty research jobs
 2019-2021 NC Department of Public Instruction AIG Think Tank Series
 2018-2021 SIPS Awards Committee
 2018-2019 NAGC Task Force on defining giftedness (co-chair)
 2018-2019 NAGC Program Committee
 2018-2020 NAGC Research & Evaluation Network Past-Chair

2018 *Gifted Child Quarterly* Badges Research Committee (chair)
 2016-2018 NAGC Research & Evaluation Network Chair
 2016-2017 Advisory Board for the [Untapped Potential](#) Project
 2016-2017 Network Task Force, NAGC
 2016 NAGC, *Gifted Child Quarterly* editor search advisory committee
 2014-2019 NAGC Publications Committee
 2014-Present American Education Research Association Research on Giftedness, Creativity & Talent SIG Graduate Student Mentor
 2014-2016 NAGC Research & Evaluation Network Chair-elect
 2013-2014 NAGC Research & Evaluation Network Membership Committee
 2013 NAGC Research & Evaluation Network Program Chair
 2012 NAGC Research & Evaluation Network Assistant Program Chair
 2012-2014 American Education Research Association Research on Giftedness, Creativity & Talent SIG Member-at-Large
 2011-2012 American Education Research Association Research on Giftedness, Creativity & Talent SIG Publications Committee
 2009-2019 Advisory Board for the American Association for Gifted Children
 2009-2010 North Carolina Department of Public Instruction Program Review Task Force
 2007-2008 Graduate Student Reviewer, *Creativity Research Journal*
 2005-2008 NAGC Graduate Student Committee

Editorial Board

2024-Present *Psychological Science*
 2024-Present *Research in Special Education*
 2019-Present *Journal for the Education of the Gifted*
 2015-Present *Gifted Child Quarterly*
 2014-2024 *Journal of Advanced Academics*
 2009-2018 *The International Journal of Creativity & Problem Solving*

Reviewer

Ad hoc reviewer: *Advances in Methods and Practices in Psychological Science*; *AERA Open*; *American Psychologist*; *Asia Pacific Education Review*; *Contemporary Educational Psychology*; *Educational Evaluation and Policy Analysis*; *Educational Psychologist*; *Educational Researcher*; *Education Sciences*; *Exceptional Children*; *Gifted Child Today*; *Gifted & Talented International*; *High Ability Studies*; *Infant and Child Development*; *Journal for the Education of the Gifted*; *Journal of Experimental Social Psychology*; *Journal of Intelligence*; *Journal of Personality and Social Psychology: Personality Processes and Individual Differences*; *Journal of Research on Educational Effectiveness*; *Journal of School Psychology*; *Language Learning: Learning and Individual Differences*; *Learning Disability Quarterly*; *MetaROR*; *New Directions for Child and Adolescent Development*; *Peer Community in Registered Reports*; *Perspectives on Psychological Science*; *Psychology of Popular Media*; *Quality & Quantity*; *Remedial and Special Education*; *Research Evaluation*; *Research in Special Education*; *Roeper Review*; *SAGE Open*; *Science*; *Social Psychology Bulletin*; *Teachers College Record*; *Theory & Psychology*.

2022 Austrian Science Fund
 2021, 2022 Institute for Education Science Review Panel

2008-Present NAGC Research and Evaluation Network proposal reviewer
2007-Present AERA Research on Giftedness and Talent SIG proposal reviewer
2007, 2008 Indiana Department of Education Public Charter School Program Grant Reviewer
2007, 2008 Indiana Department of Education Supplemental Educational Service Providers
Reviewer