

Trent N. Cash

6529 Northumberland St., Apt. 1
Pittsburgh, PA 15217

P: 330-451-9972
E: tcash@andrew.cmu.edu

Education

Expected Spring 2025 – Ph.D., Joint Program in Social and Decision Sciences (SDS) and Psychology, Carnegie Mellon University

Advisors: Dr. Danny Oppenheimer (SDS) & Dr. Sharon Carver (Psychology)

August 2022 – M.S., Behavioral Decision Research, Carnegie Mellon University

Advisor: Dr. Danny Oppenheimer

May 2020 – B.A., Double Major in Psychology and Public Management, Leadership, and Policy, The Ohio State University

Minor: Economics

Distinctions: Summa Cum Laude, Honors, & Honors Research

Research Interests

My primary research interests revolve around metacognition – the phenomenon that allows individuals to engage with their own cognitive processes. Within this domain, I am specifically interested in studying the role of metacognition in decision making (i.e., metareasoning), with a particular focus on the role of metacognition in subjective decision making. Outside of metareasoning, I also study strategic reasoning and the educational factors that influence the academic, social, and emotional outcomes of gifted students.

Publications

Cash, T. N., & Oppenheimer, D. M. (2024). Parental rights or parental wrongs: Parents' metacognitive knowledge of the factors that influence their school choice decisions. *PLOS ONE*, *19*(4), e0301768. <https://doi.org/10.1371/journal.pone.0301768>

Kim, S., Lin, T.-J., Glassman, M., Ha, S. Y., Wen, Z., Nagpal, M., **Cash, T. N.**, & Kraatz, E. (2023). Linking knowledge justification with peers to the learning of social perspective taking. *The Journal of Moral Education*. Advanced online publication. <https://doi.org/10.1080/03057240.2023.2185597>

Cash, T. N., & Lin, T.-J. (2022). Psychological well-being of intellectually and academically gifted students in self-contained and pull-out gifted programs. *Gifted Child Quarterly*, *66*(3), 188-207. <https://doi.org/10.1177/00169862211032987>.

Working Papers

Cash, T. N., & Oppenheimer, D. M. (Under Review). Assessing metacognitive knowledge in subjective decisions: The *Knowledge of Weights* paradigm.

Works in Progress

Kim, S., **Cash, T. N.**, & Lin, T.-J. (In Preparation). Examining the role of purpose and basic needs satisfaction in gifted and non-gifted adolescents' learning goal orientations.

Lin, T.-J., **Cash, T. N.**, Lee, H. J., Kim, S., Anderman, E. M., Cha, W., Liu, X., & Wen, Z. (In Preparation). Impacts of the COVID-19 pandemic on gifted and non-identified early adolescents' academic and social-emotional development.

Cash, T. N., Lin, T.-J., Anderman, E., Kim, S., & Liu, X. (In Progress). Psychological well-being of students in self-contained and cluster gifted programs: A four-year longitudinal study.

Cash, T. N., & Oppenheimer, D. M. (In Progress). When to fix a Growth Mindset: Identifying boundary conditions for the superiority of Growth over Fixed Mindsets.

Xu, W., **Cash, T. N.**, & Downs, J. S. (In Progress). Developing a psychometrically valid measure for identifying individual differences in strategic reasoning.

Xu, W., **Cash, T. N.**, & Downs, J. S. (In Progress). Psychological impacts of test-optional policies on undergraduate application and admissions decisions.

Conference Presentations

Cash, T. N., & Oppenheimer, D. M. (2024, June). Metacognitive knowledge in multi-attribute choice: Assessing the role of decision complexity. In V. Thompson (chair), *Meta-Reasoning: What do metacognitive judgments tell us about reasoning?* [Symposium]. International Conference on Thinking, Milan, Italy.

Cash, T. N., & Oppenheimer, D. M. (2024, June). *Evaluating the accuracy of LLMs' confidence judgments: A study of NFL predictions* [Oral Presentation]. International Conference on Thinking, Milan, Italy

Lin, T.-J., **Cash, T. N.**, Lee, H. J., Kim, S., Anderman, E. M., Cha, W., Liu, X., & Wen, Z. (2024, April). *Impacts of the COVID-19 pandemic on gifted and non-identified early adolescents' academic and social-emotional development* [Poster Session]. Annual Meeting of the American Educational Research Association, Philadelphia, PA.

- Xu, W., **Cash, T. N.**, & Downs, J. S. (2024, February). *Validation of an individual-differences measure of k-Level strategic reasoning* [Poster Session]. Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.
- Cash, T.N.**, & Oppenheimer, D. M. (2023, November). *Evaluating metacognition in subjective, multi-attribute choice* [Poster Session]. Annual Meeting of the Society for Judgment and Decision Making, San Francisco, CA.
- Xu, W., **Cash, T. N.**, & Downs, J. S. (2023, November). *Strategic thinking in disclosing and unraveling of hidden information* [Poster Session]. Annual Meeting of the Society for Judgment and Decision Making, San Francisco, CA.
- Cash, T. N.**, & Oppenheimer, D. M. (2023, November). *Evaluating metareasoning in subjective, multi-attribute choice decisions* [Oral Presentation]. 64th Annual Meeting of the Psychonomic Society, San Francisco, CA.
- Kim, S., **Cash, T. N.**, Lin, T.-J., & Anderman, E. (2023, August). *A person-centered approach to understanding early adolescents' purpose in academic and civic realms* [Poster Session]. Annual Meeting of the American Psychological Association, Washington, D.C.
- Cash, T. N.**, & Oppenheimer, D. M. (2022, December). *Metacognitive knowledge of preferences in policy relevant decisions* [Oral Presentation]. First Metareasoning Conference, Israel Institute for Advanced Studies, Jerusalem, Israel.
- Cash, T. N.**, & Oppenheimer, D. M. (2022, November). *Do cognitive aids improve metacognitive knowledge in school choice decisions?* [Poster Session]. Annual Meeting of the Society for Judgment and Decision Making, San Diego, CA.
- Kim, S., **Cash, T. N.**, Lin, T.-J., & Anderman, E. (2022, August). *When you intend to help others, you learn better: Exploring the beneficial effects of purpose on early adolescents' learning using self-determination theory* [Poster Session]. Annual Meeting of the American Psychological Association, Minneapolis, MN.
- Cash, T. N.**, & Oppenheimer, D. M. (2022, February). *How well do parents know their own preferences when making school choice decisions?* [Poster Session]. Annual Meeting of the Society for Judgment and Decision Making, Virtual.
- Tonissen, A., **Cash, T. N.**, Lin, T.-J., & Anderman, E. (2021, April). *Math anxiety and cheating in classrooms serving gifted and non-identified students: Expectancy and value*

mediations [Paper Session]. Annual Meeting of the American Educational Research Association, Virtual.

Cash, T. N., Lin, T.-J., Tonissen, A., & Anderman, E. (2020, November). *Psychological well-being of students in self-contained and cluster gifted programs* [On-Demand Session]. 67th Annual Convention of the National Association for Gifted Children, Virtual.

Kim, S., Lin, T.-J., Ha, S.Y., Glassman, M., **Cash, T. N.**, Wen, Z., & Nagpal, M. (2020, August). *Direct evidence for the influence of collaborative small group discussions on social perspective taking* [Poster Session]. Annual Convention of the American Psychological Association, Virtual.

Ha, S. Y., Lin, T.-J., Kim, S., Glassman, M., & **Cash, T. N.** (2020, April). *Developing epistemic cognition about social knowledge through small group discussions* [Paper Session]. Annual Meeting of the American Educational Research Association, San Francisco, California. <http://tinyurl.com/rswh6mz>. (Conference canceled).

Lin, T.-J., Glassman, M., Ha, S.Y., Kraatz, E., Paul, N., Hsieh, M., Sallade, R., Nagpal, M., Kim, S., **Cash, T. N.**, & Tonissen, A. (2020, April). *The role of text in collaborative social reasoning discussions* [Structured Poster Session]. Annual Meeting of the American Educational Research Association, San Francisco, California. <http://tinyurl.com/y2nh4w43>. (Conference canceled).

Cash, T. N., & Lin, T.-J. (2019, November). *Differential effects of two gifted programs on gifted students' psychological well-being* [Poster Session]. 66th Annual Convention of the National Association for Gifted Children, Albuquerque, New Mexico.

Cash, T. N., & Lin, T.-J. (2019, April). *Evaluating the social and emotional well-being of gifted students receiving different levels of gifted services* [Poster Session]. Annual Meeting of the American Educational Research Association, Toronto, Ontario.

Grants

January 2024 – Doctoral Dissertation Research Improvement Grant (DDRIG), National Science Foundation, \$29,900 (Received)

Project: Knowing Less Than We Can Tell: Assessing Metacognitive Knowledge in Subjective, Multi-Attribute Choice (Award No. 2333553)

August 2023 – Lorraine D. Eyde Fund Grant, American Psychological Foundation, \$3,350 (Received)

Project: The Impact of Opting Out of Standardized Tests on College Admissions: An Experimental Investigation

June 2023 – Graduate Student Small Research Grant, Center for Behavioral and Decision Research, \$2,450 (Received)

Project: Equilibrium in Voluntary Disclosure: Opting Out of Standardized Test Scores in College Admissions

February 2023 – Graduate Student Small Research Grant, Center for Behavioral and Decision Research, \$2,500 (Received)

Project: Evaluating Metacognitive Knowledge in Subjective Decisions

July 2022 – Esther Katz Rosen Fund Grant, American Psychological Foundation, \$49,985 (Received)

Project: The impact of the COVID-19 pandemic on gifted students' academic competence and socioemotional well-being during the middle school transition

July 2021 – Graduate Student Small Research Grant, Center for Behavioral and Decision Research, \$2,500 (Received)

Project: How do school rating websites' ratings impact parents' preferences between schools?

September 2020 – Academic Software Grant, Sawtooth Software, \$16,800 (Received in kind)

Project: A choice-based analysis of alignment between parents' school preferences and online school ranking formulas

May 2019 - Undergraduate Research Scholarship, The Ohio State University, \$5,500 (Received)

Project: Evaluating the social and emotional well-being of gifted students receiving different levels of gifted services

February 2019 – Small Research Grant, Department of Educational Studies, The Ohio State University, \$1,000 (Received)

Project: Evaluating the social and emotional well-being of gifted students receiving different levels of gifted services

December 2018 – Academic Enrichment Grant, Undergraduate Student Government, The Ohio State University, \$465 (Received)

Project: Evaluating the social and emotional well-being of gifted students receiving different levels of gifted services

Honors, Awards, and Fellowships

August 2022 – Graduate Assessment Fellowship, Dietrich College, Carnegie Mellon University

June 2022 – Award for Excellence in Research, Mensa Education & Research Foundation

August 2021 – Presidential Fellowship, Dietrich College, Carnegie Mellon University

April 2019 – Undergraduate Research Fellowship, American Educational Research Association

April 2016 – Eminence Fellowship, The Ohio State University

Teaching Experience

Spring 2023 - Graduate Teaching Assistant, Department of Psychology, Carnegie Mellon University

Course: Research Methods in Social Psychology

Spring 2022 – Graduate Teaching Assistant, Department of Social and Decision Sciences, Carnegie Mellon University

Course: Programming and Data Analysis for Social Scientists

Autumn 2021 – Graduate Teaching Assistant, Department of Social and Decision Sciences, Carnegie Mellon University

Course: Human Intelligence and Human Stupidity

Spring 2021 – Graduate Teaching Assistant, Department of Social and Decision Sciences, Carnegie Mellon University

Course: Behavioral Economics in the Wild

Autumn 2020 – Graduate Teaching Assistant, Department of Social and Decision Sciences, Carnegie Mellon University

Course: Reason, Passion, and Cognition

Leadership, Service, & Community Engagement

Spring 2023 – Present – Director, Graduate Student Psychology Outreach Program

Responsibilities: Creating and organizing opportunities for members of the outreach program to engage with underrepresented students in the Pittsburgh community through Psychology-themed volunteering

Fall 2022 – Present – Chair, SDS Graduate Student Events Committee

Responsibilities: Planning and coordinating group activities to foster healthy and positive working relationships among graduate students in my department.

Fall 2021 – Fall 2022 – Member, Psychology Outreach Program

Responsibilities: Collaborating with other members of the Outreach Program to design psychology-themed activities and lessons for underrepresented students.

November 2021 – Workshop Leader, Stark County (OH) Gifted Coordinators Committee

Responsibilities: Presenting my research on the psychological well-being of gifted students to the gifted coordinators of all the school districts in Stark County, Ohio.