MELTEM ALEMDAR, PH.D.

PRINCIPAL RESEARCH SCIENTIST

404.518.2478
malemdar@gmail.com
241 East Lake Dr., Decatur, GA 30030

EDUCATION

Georgia State University *Atlanta, Georgia*
May 2009
Doctor of Philosophy
Concentration: Research, Measurement & Statistics
Dissertation: *A Monte Carlo Study: The impact of missing data in cross-classified random effect models.*

May 2009
Certification in Public Health

May 2003
Master of Science
Major: Educational Research

University of Hacettepe *Ankara, Turkey*
June 1999
Bachelor of Science
Testing, Measurement and Evaluation in Education
Concentration/Certification: Mathematics Education

PROFILE

- Highly skilled In leading and executing complex and multi-disciplinary projects at all organizational levels
- Proven leader in STEM education research and evaluation
- Proven leader with the ability to identify and capitalize on individual strengths, motivate teams and implement vision to achieve goals on a local and national level

SELECT ACCOMPLISHMENTS

- Led the **establishment of Education Research and Evaluation Group** to cement Georgia Tech's position as an important community partner in K-12 education policy and reform efforts and studying undergraduate education by encouraging the development of knowledge and expertise in evidence-based decision-making using the platforms of advanced qualitative and quantitative research methods
- Expanded Georgia Tech's involvement in Georgia K-12 education and has become a **major partner with the Georgia Department of Education** (GaDOE) in conducting research at a statewide level
- Key leader in building capacity at Georgia Tech for **rigorous education research and program evaluation** relating to K-12 and undergraduate STEM education
- Led efforts to **enhance the quality of STEM education** by development, implementation and research of innovative STEM curricula
- Principal investigator and co-Principal investigator on **ten major NSF grants**
- External **evaluator for 50+ evaluation projects** related to undergraduate and K12 education.
- Member of **Advisory Boards on STEM research studies** (NSF Noyce, NSF DRK-12, NSF ITEST, NSF IUSE)
- Invited **Keynote Speaker** at NSF 2019 Noyce Summit
- Served at **STEM Education 2026 Working Group** (NSF funded)

PROFESSIONAL EXPERIENCE

Associate Director for Education Research and Evaluation
Principal Research Scientist
July 2020 - Present

Georgia Institute of Technology
Center for Education Integrating Science, Math and Computing (CEISMC)

Dr. Alemdar's responsibilities include collaborating with external partners at the local and international level to pursue partnership and research/evaluation opportunities. She leads the development of STEM grant proposals at CEISMC, including the management and delivery of project outcomes. She manages 12 research faculty, and over 15 undergraduate and graduate students. Since coming to Georgia Tech in 2009, Dr. Alemdar has been a key leader building capacity at the university for conducting rigorous education research and program evaluation of K-12 and higher education, which is critical for the university as it increases its institutional participation in the field of education policy and research. The establishment of Educational Research and Evaluation Group by Dr. Alemdar at CEISMC helped to cement Georgia Tech's position as an important community partner in education policy and reform efforts by encouraging the development of knowledge and expertise in evidence-based decision-making using the platforms of qualitative and quantitative research methods. Dr. Alemdar's research focuses on improving STEM education through research on curriculum development, teacher professional development, and student learning in integrated STEM environments. Dr. Alemdar is currently PI and co-PI for research on various NSF funded projects. In addition, she has been external evaluator for various NSF Projects over the past decade. Her expertise includes program evaluation, social network analysis and quantitative methods such as Hierarchical Linear Modeling, and Structure Equation Modeling. Currently, she is PI and co-PI on 5 NSF projects ($8M+ in funding).

Associate Director for Educational Research and Evaluation/Senior Research Scientist
Oct 2016 - June 2020

Georgia Institute of Technology CEISMC

Assistant Director for Educational Research and Evaluation/Senior Research Scientist
July 2015 - Sept 2016

Georgia Institute of Technology CEISMC

Assistant Director for Educational Research and Evaluation/ Research Scientist II
July 2011 - July 2015

Georgia Institute of Technology CEISMC

Research Scientist II
Sept 2009 - July 2011

Georgia Institute of Technology CEISMC

Senior Research Associate
Jan 2009 - July 2009

Georgia State University, Institute of Public Health

Program Evaluation Research Associate
2008 - 2009

Georgia State University, Department of Education Policy Studies

Graduate Research Assistant
2003 - 2008

Georgia State University, Department of Education Policy Studies

Teaching Assistant
2005 - 2006

Georgia State University, Department of Education Policy Studies

Senior Graduate Student Researcher
2002 - 2004
Georgia Professional Standards Commission

Testing Coordinator
1999-2000
University of Hacettepe, Ankara, Turkey

Primary School Teacher, Mathematics
1999 - 2000
Ankara, Turkey

SELECT EXTERNAL FUNDING *(CURRENT & PAST)*

NSF Noyce *(Role: Principal Investigator)*

Investigating Factors Influencing Engineering and Computer Science Teachers' Professional Identity, Support Networks, Effectiveness, and Retention, 850K, 2022-2026 NSF Award Number #2243288

NSF DRK-12 *(Role: Principal Investigator)*

Measuring the Effectiveness of Middle School STEM-Innovation and Engineering Design Curricula , Awarded: 2.7M, 2021-2025, NSF Award # 2101441

NSF DRK-12 *(Role: Co-Principal Investigator)*

Students and Teachers Learning from Nature: Studying Biologically-Inspired Design in High School Engineering Education, 2,9M, 2019-2023, NSF Award # 1907906

NSF RETTL *(Role: Co-Principal Investigator)*

Exploring Artificial Intelligence-enhanced Electronic Design Process Logs (AI-EDPL), 1M, 2021-2024, NSF Award # 2119135

US Dept of Education *(Role: Principal Investigator)*

Evaluation of GA's Statewide Initiative, 800K, 2017-2025

NSF Noyce *(Role: Principal Investigator)*

An Exploratory Study: The Role of Social Networks and Self-Efficacy in the Retention of Noyce Teachers, 489K, 2017-2021 NSF Award Number #1660597

NSF IGE *(Role: Co-Principal Investigator)*

Integrating Team Science into the STEM Graduate Training Experience, 571K, 2017-2023, Award #1735017

NSF STEM+C *(Role: Co-Principal Investigator)*

Culturally Authentic Practice to Advance Computational Thinking in Youth (CAPACiTY), 2.5M, 2016-2022, NSF Award #1639946

NSF Math & Science Partnership *(Role: Co-Principal Investigator)*

NSF Math & Science Partnership: Advanced Manufacturing and Prototyping Integrated To Unlock Potential (AMP-IT-UP), 2012-2019, NSF Award #1238089

BOOK CHAPTERS

Alemdar, M., Gale, J., Cappelli, C., & Boice, K. (2022). An exploratory study: The role of social networks and self-efficacy in the retention of Noyce teachers. In L. Manier, T. York, & B. Calinger (Eds.), *Research in practice: Preparing and retaining K-12 STEM teachers in high-need school districts* (pp. 3-68). American Association for the Advancement of Science, NSF Math & Science Partnership: Advanced Manufacturing and Prototyping Integrated To Unlock Potential (AMP-IT-UP), 2012-2019, NSF Award #1238089

Pucha, R., Dosa, K., Newton, S., **Alemdar, M.**, Yow, R., and Hirsch, J. (2020). Integrating Sustainability into a Freshman Engineering Course Through an Institute–level Initiative. In *Integrating sustainable development into the curriculum: Innovations in Higher Education Teaching and Learning*. Patrick Blessinger (Ed). Publisher, Emerald Group Publishing, 2020.

Millman, R., **Alemdar, M.** and Harris, B., "A Meta-Analysis by Mathematics Teachers of the GIFT Program using Success Case methodology," in *Educational Interfaces between Mathematics and Industry*, pp. 421-426, (Damlamian, A, Ed.), New York: Springer (2013)

SELECT PUBLICATIONS & REFEREED PAPERS

Alemdar, M., Cappelli, C., Gale, J., & Boice, K.L. (2022). An Exploratory Study of STEM Teachers' Mentorship Networks. *International Journal of STEM Education*, 9, 64. https://doi.org/10.1186/s40594-022-00383-7

Gale, J., Koval, J., **Alemdar, M.**, Grossman, S., & Usselman, M.(2022). Sustaining shifts in science teaching through a research–practice partnership. *School Science and Mathematics*, 122(6), 298–310.https://doi.org/10.1111/ssm.12545

Gale J, **Alemdar M.**, Cappelli C and Morris D (2021). A Mixed Methods Study of Self-Efficacy, the Sources of Self-Efficacy, and Teaching Experience. *Front. Educ.* 6:750599. doi: 10.3389/feduc.2021.750599

Alemdar, M., & Ehsan, H., & Cappelli, C., & Kim, E., & Moore, R., & Helms, M., & Rosen, J. H., & Weissburg, M. (2021, July), Biologically Inspired Design For Engineering Education: Online Teacher Pr*ofessional Learning (Evaluation) Paper presented at 2021* ASEE Virtual Annual Conference Content Access, Virtual Conference. 10.18260/1-2--36749

Newton, S., **Alemdar, M.**, Rutstein, D., Edwards, D., Helms, M., Hernandez, D., & Usselman, M. (2021). Utilizing evidence-centered design to develop assessments: A high school introductory computer science course. *Frontiers in Education: Measurement, Testing and Applied Measurement*. https://doi.org/10.3389/feduc.2021.695376

Boice K. L., Jackson J. R., **Alemdar M.**, Rao A. E., Grossman S., Usselman M. (2021). Supporting teachers on their STEAM journey: A collaborative STEAM teacher training program, *Education Sciences,* 11(3):105.

Alemdar, M. & Cappeli, C.J. (2020, November 4). Program Evaluation Frameworks: Why do they matter? NSF Advancing Research & Innovation in the STEM Education of Preservice Teachers in High-Need School Districts (ARISE).

Gale, J. **Alemdar, M.**, Lingle, J.A., & Newton, S. (2020). Exploring Critical Components of an Integrated STEM Curriculum An Application of the Innovation Implementation Framework. *International Journal of STEM Education.*

Wind, S.A., **Alemdar, M.**, Lingle, J.A., Moore, R. & Asilalkan, A. (2019). "Exploring student understanding of the engineering design process using distractor analysis." *International Journal of STEM Education*, 6(4).

Moore, R.A., Newton, S., & **Alemdar, M.** (2019). K-12 InVenture Prize: Teacher reflections on educating K-12 inventors. *Technology and Innovation*, 20, 221 - 233. http://dx.doi.org/10.21300/20.3.2019.221

Cappelli, C., Boice, K., & **Alemdar, M.**, (2019) Evaluating University-Based Summer STEM Programs: Challenges, Successes, and Lessons Learned, *Journal of STEM Outreach*, Vol.2. DOI: https://doi.org/10.15695/jstem/v2i1.13.

Alemdar, M., Moore, R., Lingle, J., Rosen, J, Gale, J., & Usselman, M. (2018). The Impact of a Middle School Engineering Course on Students' Academic Achievement and Non-Cognitive Skills. *International Journal of Education in Mathematics, Science and Technology*, 6(4), 363-380. DOI: 10.18404/ijemst.440339.

Alemdar, M., Cappelli, C., Criswell, B., & Rushton, G. (2018). Evaluation of a Noyce Program: Development of Teacher Leaders in STEM Education. *Evaluation and Program Planning* (71), 1-11.

Criswell, B., Rushton, G., Nachtigall, D., Staggs, S., **Alemdar, M.** & Cappelli, C.J. (2018). Strengthening the vision: Examining the understanding of a framework for teacher leadership development by experienced science teachers. *Science Education*, 1-23.

Hérnandez, D., Usselman, M., Rana, S., **Alemdar, M.**, & Rao, A. (2018) Paving the road into college and STEM for Latino students. *Journal of STEM Outreach*, 1(2), 35-47. doi: 10.15695/jso.v1i2.4509.

Newton, S., **Alemdar, M.**, Hilton, E., Linsey, J., Fu, K. (2018). Incorporating industrial design pedagogy into a mechanical engineering graphics course: a discipline-based education research (DBER) approach. *International Journal of STEM Education* 5(29), 1-14.

Wind, S., **Alemdar, M.**, Lingle, J., Moore, R., & Gale, J. (2017). "Developing an Engineering Design Process Assessment using Mixed Methods: An Illustration with Rasch Measurement Theory and Cognitive Interviews." *Journal of Applied Measurement*.

Alemdar, M., Lingle, J.A., Wind, S.A., & Moore, R.A. (2016). "Developing an Engineering Design Process Assessment Using Think Aloud Interviews." *International Journal of Engineering Education*, 32(6).

Hérnandez, D., Rana, S., **Alemdar, M.**, Rao, A., & Usselman, M. (2016). Latino parents' educational values and STEM beliefs. *Journal of Multicultural Education*, 10(3), 354-367. doi: 10.1108/JME-12-2015-0042

Swahn, M.H., **Alemdar, M.**, & Whitaker, D (2010). "Nonreciprocal and reciprocal dating violence and injury occurrence among urban youth". *Western Journal of Emergency Medicine*, vol. 11, no. 3, pp., 264-268.

Millman, R., **Alemdar, M.** and Harris, B., (2013) "A Meta-Analysis by Mathematics Teachers of the GIFT Program using Success Case methodology," in *Educational Interfaces between Mathematics and Industry*, pp. 421-426, (Damlamian, A, Ed.), New York: Springer.

Lingle, J. **Alemdar, M.** & Gale, J.. (2013). " The Impact of a Higher Education Summer Internship Program on K-12 Science Teachers. " *Proceedings of 2013 National Association for Research in Science Teaching*.

Hendricks, C., Ogletree, T., & **Alemdar, M.** (2012). The impact of participation in VEX Robotics Competition on middle and high school students' interest in pursuing STEM studies and STEM-related careers. *Proceedings of the 2012 American Society for Engineering Education Annual Conference*.

Alemdar, M., Docal, T. (2011). Engaging K-12 Teachers in Technology Tools to Support Electronic and Mobile Learning Through an Online Professional Development Course, *Proceedings of American Society for Engineering Education (ASEE) Annual Conference*, June 2011.

Alemdar, M., Rosen, J. (2011). Introducing K-12 Teachers to LEGO Mindstorm Robotics Through a Collaborative Online Professional Development Course, *Proceedings of American Society for Engineering Education (ASEE) Annual Conference*, June 2011.

Luken, B., Hotle, S., **Alemdar. M.**, A Case Study: Educating Transportation Engineers with Simulation Software, *Proceedings of American Society for Engineering Education (ASEE) Annual Conference*, June 2011.

Millman, R., **Alemdar, M.**, Harris, B., (2010). A Meta-analysis of Mathematics Teachers of the GIFT Program Using Success Case Methodology, *Proceedings of the ICMI-ICIAM Study Conference*, "Educational Interfaces between Mathematics and Industry", Editors: Araugjo, Fernandes, Azevedo, Rodrigues, April, 2010, p.367-376.

Alemdar, M. (2010) Robert Noyce Scholarship Program, a partnership with Kennesaw State University, Evaluation Report, National Science Foundation, Atlanta, GA.

Swahn MH, **Alemdar M,**, Whitaker DJ (2010). Nonreciprocal and reciprocal dating violence and injury occurrence among urban youth. *Western Journal of Emergency Medicine*. 11:264-8.

SELECT TECHNICAL REPORTS

Alemdar, M., DeStefano, L., Cappelli, C. (2019-2021). *Social Network Analysis of L4GA*. Evaluation report prepared for the Georgia Department of Education.

Rana, S., Hernandez, D., **Alemdar, M.**, Usselman, M., & Beck, E. (2018, November). *GoSTEM 2017-2018 Annual Evaluation Report*. Presented to The Goizueta Foundation. Atlanta, GA: CEISMC.

Alemdar, M., Cappelli, C. (2016). *Annual Evaluation Report of the Robert Noyce Teacher Scholarship Program: Pipeline to Teacher Preparation in Chemistry and Physics (CPU)*. Evaluation report prepared for the National Science Foundation.

Alemdar, M., Cappelli, C., Rollins, L., Nehl, E. (2016). *Annual Evaluation Report of the Atlanta Clinical and Translational Science Institute (ACTSI)*. Evaluation report prepared for the National Institutes of Health.

Alemdar, M. & Cappelli, C. (2016). *Summative Evaluation Report of Noyce Initiative to Increase and Mentor Physics and Chemistry Teachers (I-IMPACT*). Evaluation report prepared for the National Science Foundation.

Alemdar, M., Cappelli, C., Andres, L. (2014). *Annual Evaluation Report of the Atlanta Clinical and Translational Science Institute (ACTSI)*. Evaluation report prepared for the National Institutes of Health.

Alemdar, M., Lingle, J., Cappelli, C., Davis, T., Gale, J., Thompson, C. (2012). *An Evaluation Report of the Title IID Program "Engaging Advanced Placement Students Through Mobile Handheld Computing"*. Evaluation report prepared for the Georgia Department of Education.

Gowen, S., **Alemdar, M.** (2008). Evaluation of the Georgia Academic Learn & Serve Program, Year 2 Final Report (Second Term). Georgia Department of Education, Atlanta, GA.

Gowen, S., Furlow, C., **Alemdar, M.** (2007). Evaluation of the Georgia Academic Learn & Serve Program, Year 1 Final Report (Second Term). Georgia Department of Education, Atlanta, GA.

SELECT RESEARCH & EVALUATION PRESENTATIONS AND TRAININGS

Alemdar, M., Gale, J., Newton, S., Lingle, J. Rosen, J., Moore, J. "Science Integration in a Middle School Engineering Course". Annual International Conference of the National Association for Research in Science Teaching, Atlanta, GA, March 10-13, 2018.

Alemdar, M., Cappelli, C., Gale, J., and Rana, S. (2018). *An Exploratory Study: The Role of Social Networks and Self-Efficacy in the Retention of Noyce Teachers*. Poster presented at the International Network for Social Network Analysis Conference, Utrecht, Netherlands.

Alemdar, M., Cappelli, C., Gale, J., and Rana, S. (2018). *The Role of Social Networks and Self-Efficacy in the Retention of Noyce Teachers*. Poster presented at the 2018 Noyce Summit, Washington, D.C.

Alemdar, M., Cappelli, C., Gale, J., Rana, S., Abdus-Salaam, R. (2018). *The Role of Social Networks and Self Efficacy in the Retention of Noyce Teachers*. Poster presented at the Southeast Regional Noyce Conference, Mobile, AL.

Gale, J., **Alemdar, M.**, Lingle, J., Newton, S., Moore, R., Rosen, J.(2018). Developing engineering proficiency and self-efficacy through a middle school engineering course. Proceedings of the American Society for Engineering Education.

Alemdar, M., Cappelli, C. (2016). Evaluation of a Noyce Program: Development of Teacher Leaders in STEM Education. Paper presented at the National Association of Research in Science Teaching (NARST) Annual Conference, Baltimore, MD.

Cappelli, C., **Alemdar, M.**, Greenwood, A., De Veaux, C., Tierney, R. (2016). *A Summer Program: Engaging Middle School Students in Transportation Engineering.* Poster presented at the Georgia Tech STEM Education Research Expo, Atlanta, GA.

Lingle, J., **Alemdar, M.**, Wind, S., Moore, R., & Usselman, M. (2016). "The Development and Validation of an Engineering Assessment." Proceedings of the 2016 Annual Conference of the National Association for Research in Science Teaching. Baltimore, MD.

Lingle, J., **Alemdar, M.**, & Rana, S. (2016). "Exploring 21st Century Skills in Formal and Informal Educational Settings." Presented at the 2016 American Evaluation Association (AEA) National Conference.

Alemdar, M., Lingle, J., Moore, R., Newton, S., Usselman, M., & Wind, S. (2016). "The impact of STEM Innovation and Design Courses on Secondary Students' Achievement and Non-Cognitive Skills Related to Engineering Design." Poster presented at the 2016 GT-ASEE STEM Education Research Expo. Atlanta, GA.

Hilton, E., Li, W., Newton, S.H., **Alemdar, M.**, Pucha, R., & Linsey, J. (August, 2016). *The development and effects of teaching perspective free-hand sketching in engineering design*. Presented at the ASME 2016 International Design Engineering Technical Conference and Computers and Information in Engineering Conference: Charlotte, NC.

Alemdar, M., Rosen, J., Moore, R., Lingle, J., Newton, S., & Wind, S. (August, 2016). *The development of STEM innovation and engineering design courses, and its impact on middle school students' achievement and non-cognitive skills related.* Presented at the 3rd Annual P-12 Engineering and Design Research Summit, Chicago, IL.

Pucha, R.V., Newton, S.H., **Alemdar, M.**, & Utschig, T.T. (November, 2016). *Process-oriented intervention and reflection strategies for creativity in student design projects.* Presented at the Fourth International Conference on Design Creativity (4th ICDC), Atlanta: GA.

Moore, R.A., **Alemdar, M.**, Newton, S., Lingle, J., Rosen, J., Usselman, M., Wind, S.A. (2015). High School Engineering Class: From Wood Shop to Advanced Manufacturing. Conference Proceedings of American Society of Engineering Education, June 2015, Seattle, WA.

Alemdar, M., Lingle, J., Moore, R. & Wind, S. (2015). Developing an Engineering Design Assessment Using Think-Aloud Interviews. Paper presented at the Annual Conference of the National Association for Research in Science Teaching. Chicago, IL.

Wind, S., **Alemdar, M.**, Gale, J., & Lingle, J. (2015). Developing an Engineering Design Process Assessment Using Mixed Methods: An Illustration with Rasch Measurement Theory and Cognitive Interviews. Paper presented at the Annual Conference of the American Evaluation Association. Chicago, IL.

Alemdar, M., Wind, S., Lingle, J., Moore, R., & Usselman, M (2015). Developing an Engineering Design Assessment Using Mixed-Methods Design. Poster presented at the GT-ASEE STEM Education Research Expo. Atlanta, GA.

Alemdar, M., Cappelli, C. (2015). An Assessment of the Collaborations for Inter-Institutional Translational Research using Social Network Analysis. Poster presented at the annual XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Brighton, UK.

Alemdar, M., & Lingle, J. & Nguyen, M. (2014).“Evaluating 21st Century Skills: A case Study of one K-12 Private School”. Presented at the 2014 American Evaluation Association (AEA) National Conference.

Alemdar, M., Cappelli, C., Andres, L., Akintobi, T., Dodds, A. (2014). Use of Social Network Analysis Tools to Document Collaboration for Inter-Institutional Translational Research. Presented at the annual 2014 INSNA Sunbelt XXXIV International Social Network Analysis Conference.

Alemdar, M., Davis, T. (2013).” Challenges of a Multi-Site Evaluation of a Science, Technology, Engineering, and Mathematics (STEM) Research Program for Teachers.” Presented at the 2013 American Evaluation Association (AEA) National Conference.

Alemdar, M., Davis, T. (2013). “ Professional Learning Communities and the Promotion of Cross-School Collaboration.” Presented at Annual 2013 Math and Science Partnerships Conference.

Alemdar, M. & Cappelli C. (October, 2013). “Utilization of Web-based Collaboration Site as a Program Evaluation Tool”. Presented at the 2013 American Evaluation Association (AEA) National Conference.

Hendricks, C., **Alemdar, M.**, & Ogletree, T. (2012). “The impact of the VEX Robotics Competition on problem-solving, collaboration, and communication.” Presented at the 2012 Annual conference of the International Society for Technology in Education.

Gale, J., Lingle, J., & **Alemdar, M.** (2012). “An Evaluation of Self-Paced STEM Online Professional Learning Courses.” Presented at the 2012 Annual Conference of the American Evaluation Association.

Alemdar, M., Cappelli, C. Lingle, J., Gale, J., Davis, T., & Thompson, C. (2012). “Technology Implementation in AP Courses: Evaluating a State Funded Title IID Program.” Presented at the 2012 Annual Conference of the American Evaluation Association.

Alemdar, M., & Davis, T. (2012). “The Impact of a Math and Science Partnership (MSP) Program on Teacher Self-Efficacy.” Presented at the 2012 Annual Conference of the American Evaluation Association.

Alemdar, M. (2011) Evaluation of Robert Noyce Scholarship Program. American Evaluation Association (AEA), Anaheim, California, November 1-6, 2011.

Millman, R., **Alemdar, M.**, Harris, B., (2011). *A Meta-analysis of Mathematics Teachers in the industrial Internship GIFT Program*, Conference of the international Group for Psychology of Mathematics Education (PME), Ankara, Turkey. July 10-15, 2011.

Alemdar, M., Ryan M., Rosen, J., Docal, T. *The NASA Electronic Professional Development Network (ePDN): Online Professional Development Courses for Teachers*, (2011) National Science Teacher Association (NSTA) Conference San Francisco, California, USA . March 10-13, 2011

Swahn, M.H. , **Alemdar, M.**, & Hamburger, M. (November 2009). Nonreciprocal and Reciprocal Dating Violence and Abuse among Urban Youth. Paper is accepted for presentation at the American Society of Criminology.

Swahn, M.H. , **Alemdar, M.**, & Whitaker, D. . (November 2009). Alcohol and Violence among Urban Youth: Comparing Correlates of Alcohol-Related Physical Fighting versus Other Physical Fighting. Paper is accepted for presentation at the American Society of Criminology.

Alemdar, M. (April 2009). A Monte Carlo Study: The impact of missing data in cross-classified random effect models. Poster presented at the Annual Conference for the American Educational Research Association, San Diego, CA.

Lingle, J., **Alemdar, M.**, & Gowen, S. (April 2009). Comparing Methods of Propensity Score Estimation with Partially missing Data. Paper presentated at the Annual Conference for the American Educational Research Association, San Diego, CA.

Lingle, J., **Alemdar, M.**, Gowen, S., & Skelton, S. (March 2008). School Engagement, After School Activities, and Health-Risk Behaviors: Results from an Evaluation of Community-Based After School Programs. Paper presented at the Annual Conference for the American Educational Research Association, New York, NY.

Gowen, S., **Alemdar, M.** (June, 2008). Evaluation of Academic Service Learning Program (Year 3). Evaluation training conducted at the State Kickoff Conference: GA Academic Service Learning. St. Simons, GA

Alemdar, M. Gowen, S. (September, 2007). Evaluation GA Academic Service Learning Findings (Year 2). Paper presented at Service Learning Conference, Atlanta, GA.

Alemdar, M. Gowen, S. (June, 2007). Evaluation of Academic Service Learning Program. Evaluation training conducted at the State Kickoff Conference: GA Academic Service Learning. St. Simons, GA

Alemdar, M., Furlow, C. (April 2007). The impact of Missing Data in cross-classified models. Paper presented at Sixth International Amsterdam Conference on Multilevel Analysis, Amsterdam, Netherlands.

Alemdar, M. (October, 2006). The Value of Evaluation: Teacher Training Programs in Turkey. Poster presented at American Evaluation Association Conference, Portland, Oregon.

Alemdar, M., Gowen, S. (June, 2006). Evaluation of Academic Service Learning Program. Evaluation training (Year 3) conducted at the State Kickoff Conference: GA Academic Service Learning. St. Simons, GA

Alemdar, M., Gowen, S., Furlow, C. (April, 2006). An Evaluation GA Academic Service Learning. Paper presented at the Annual Conference for the American Educational Research Association, San Francisco, CA.

Alemdar, M., Furlow, C. (November, 2005). *Investigation of Missing Data Patterns in Georgia Academic Learn & Serve Program*, Paper presented at the 5th Annual International Learn & Serve Conference, East Lansing, MI.

Alemdar, M., Furlow, C. (August, 2005). *Evaluation of the Academic Learn and Serve Program Using HLM*. Poster presented at the American Psychology Association Annual Convention, Washington DC.

Alemdar, M., Livingston, S. (June, 2005). Evaluation of Academic Service Learning Program. Evaluation training (Year 3) conducted at the State Kickoff Conference: GA Academic Service Learning. St. Simons, GA.

Alemdar, M. (February, 2005). *John Dewey's Impact on Today's Turkish Education System*. Paper presented The Southeast Philosophy of Education Society Conference, Orlando, FL.

Alemdar, M., Livingston, S. (June, 2004). Evaluation of Academic Service Learning Program. Evaluation training (Year 2) conducted at the State Kickoff Conference: GA Academic Service Learning. Athens, GA

Alemdar, M., Livingston, S.,Gowen, S. *Evaluation challenges faced when assessing a service-learning program*. Poster presented at the 2004 International Service-Learning Research Conference, Greenville, SC.

SELECT EXTERNAL FUNDING (SERVED AS EXTERNAL EVALUATOR)

NSF IUSE (Undergraduate Research) *(Role: External Evaluator)*
Program to integrate mobile, hands-on experiments into the ME, AE, and ECE curricula. Amount: $599,947

NSF Noyce Scholarship *(Role: External Evaluator)*
Robert Noyce Teacher Scholarship Program: Pipeline to Teacher Preparation in Chemistry and Physics (CPU).

NSF Noyce Scholarship *(Role: Evaluator)*
Noyce Initiative to Increase and Mentor Physics and Chemistry Teachers (I-IMPACT). Amount: $5M

Goizueta Foundation STEM Initiative *(Role: External Evaluator)*
GoSTEM

Atlanta Science Festival *(Role: External Evaluator)*

NIH *(Role: Director of Evaluation & Tracking)*
The Atlanta Clinical and Translational Science Institute (ACTSI), Overall Amount: $35M

NSF RDE Project *(Role: Evaluator)*
Collaborative Research: Georgia STEM Accessibility Alliance (GSAA)

Georgia Dept of Education *(Role: Principal Investigator)*
Engaging AP students through Mobile Handheld Computing, Amount: $220K, Project Period: 01/13/2011-02/12/2012

Georgia Dept of Education *(Role: Principal Investigator)*
Increasing Student Achievement with Digital Resources, Amount: $100K, Project Period: 03/30/2010-11/30/2011

NASA *(Role: External Evaluator)*
ePDN Project, Project Period: 3/1/09—9/30/12

Georgia Dept of Education *(Role: External Evaluator)*
The Museum School Race to the Top Innovation Fund “Museum in a Box”, Project Period: 2012-2016

Georgia Dept of Education MSP Projects *(Role: Evaluator)*
Macon County Math & Science project, Floyd County Math & Science Project

Evaluation of Westminster School Initiative *(Role: Principal Investigator)*
Amount: $300K, Time Period: 06/012012-09/30/2015

SELECT SERVICE ACTIVITIES

Georgia Institute of Technology

Faculty Senate, Research Faculty Representative
2020-2023
Elected position, ex-officio

Faculty Governance, Research Faculty Representative
2018-2020
Elected position, ex-officio

Climate Survey Taskforce

Institutional Assessment Committees

Master Level STEM Policy Class & Research Methods, Instructor

Faculty & Graduate Student Education Research Methods Course, Instructor

Georgia State University

Research Methods & Statistics, Instructor
2020-2023
Elected position, ex-officio

Education Policy Department Taskforce for development of Program Evaluation certification program

AWARDS & HONORS

CEISMC Leadership Award — *2017 & 2022*
Georgia Institute of Technology

Institutional Diversity Leadership Award — *2016*
Georgia Institute of Technology

Who's Who Among Graduate Schools Honor — *2006*
Georgia State University

Outstanding Leadership Award — *2003*
Georgia State University,
Awarded by International Student Association Council

REFERENCES

Dr. Lizanne DeStefano
Executive Director, CEISMC
Georgia Institute of Technology
ldestefano6@gatech.edu

Dr. Marion Usselman
Associate Director, CEISMC
Georgia Institute of Technology
marion.usselman@ceismc.gatech.edu

Dr. Cher Hendricks
Vice President for Academic Affairs
Colorado Mesa University
chendricks@coloradomesa.edu

Dr. Diley Hernandez
Associate Vice Provost for Strategic Initiatives
Georgia Institute of Technology
dhernandez31@gatech.edu