

CURRICULUM VITAE

Shihfen Tu

University of Maine
5766 Shibbles Hall, Rm 308
Orono, ME 04469-5766
Work Phone: (207) 581-9064
E-mail: shihfen.tu@maine.edu

Education

Doctor of Philosophy -- Psychology (Cognition and Perception)
University of Washington 1994
Minor in Quantitative Psychology

Bachelor of Science -- Agricultural Economics
National Chung-Hsing University 1985
Taichung, Taiwan, Republic of China

Selected Professional Appointments

University of Maine, Orono, Maine

9/2019 – Present Professor of Education and Applied Quantitative Methods
1/2019 – Present Director, School of Learning and Teaching
9/2008 – 8/2019 Associate Professor of Education and Applied Quantitative Methods
11/2002 – 12/2008 Coordinator of Research and Evaluation,
 Center for Community Inclusion and Disabilities Studies,
 Maine’s University Center for Excellence in Developmental Disabilities
9/2002 – 8/2008 Assistant Professor of Education and Applied Quantitative Methods
7/2001 – 8/2002 Assistant Professor of Interdisciplinary Studies

University of Miami, Coral Gables, Florida

1/1999 – 6/2001 Director, Children’s Registry and Information System (Florida Child Find
 Data System)

- 8/1996 – 6/2001 Assistant Research Professor, Department of Psychology
- 8/1994 – 7/1996 Lecturer, Department of Psychology

Selected Publications

- Finster, M., Decker-Woodrow, L., Booker, B., Mason, C.A., Tu, S., and Lee, J. (under review). Cost-effectiveness of Algebraic Technological Applications.
- Rooks-Ellis, D.L., Scheibel, G.M., Mason, C., & Tu, S. (under review). Adapting ESDM for Statewide Implementation: A Look at Intervention Intensity, Child Factors and Cost.
- Decker-Woodrow, L., Mason, C.A.; Lee, J.E., Chan, J.Y., Sales, A., Liu, A., Tu, S. (2023). The impacts of three educational technologies on algebraic understanding in the context of COVID-19. *AERA Open*, 9 (1), 1-17. DOI: 10.1177/23328584231165919
- Liu, A.S., Chan, J.Y., Lee, J.E., Decker-Woodrow, L.E., Tu, S., Sales, A., Mason, C.A. (2022). Does where you start matter? The interaction between prior knowledge and effectiveness of game-based interventions. In Chinn, C., Tan, E., Chan, C., & Kali, Y. (Eds), *Proceedings of the 16th International Conference of the Learning Sciences – ICLS 2022*. Hiroshima, Japan: International Society of the Learning Sciences, (pp.2182-2183). ISBN: 978-1-7373306-5-3.
- Doherty, D., Fairman, J., Mason, C.A., Tu, S. (2021). Program Evaluation Report for the Graduate School of Biomedical Science and Engineering (GSBSE) Doctoral Programs. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for National Institutes of Health]
- Livingstone, S., Mason, C., Tu, S., Nightingale, C., Lehnhard, R., & Butterfield, S. (2021). Indicators of aerobic capacity. *International Journal of Physical Education, Sports and Health*, 8(1), 3-8. <https://www.kheljournal.com/archives/2021/vol8issue1/PartA/7-6-30-800.pdf>
- Tu, S., Mason, C. A., Rooks-Ellis, D. L., & Lech, P. (2020). Odds of autism at 5 to 10 years of age for children who did not pass their AABR newborn hearing screen, but were diagnosed with normal hearing. *Journal of Early Hearing Detection and Intervention*, 5(1), 1-12. <https://digitalcommons.usu.edu/jehdi/vol5/iss1/2/>
- Inventado, P.S., Francisco Inventado, S.G., Matsuda, N., Li, Y., Scupelli, P., Ostrow, K., Heffernan, N., Tu, S., Mason, C., Logue, M., and McGuire, P. (2018). Using Design Patterns for Math Preservice Teacher Education. In *Proceedings of the 23rd European Conference on Pattern Languages of Programs (EuroPLOP 2018)*. ACM. <https://dl.acm.org/citation.cfm?id=3282340>

- Angell, R., Butterfield, S.A., Tu, S., Loovis, E.M., Mason, C.A., and Nightingale, C.J. (2018). Children's Throwing and Striking: A longitudinal Study. *Journal of Motor Learning and Development*, 6(2), 315-332.
- Tu, S. and Mason, C. (2018). Long-Term Impact of EHDI Program on Educational Outcomes 5 to 10 Years Later [Abstract]. *Book of Abstracts at the 2018 Hearing Across the Lifespan (HEAL) Conference*, (p.65).
- Mason, CA, & Tu, S. (2018). *Mobility in Maine Schools: Impact on Student Performance and Proficiency*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- Martinson, T., Butterfield, S.A., Mason, C.A., Tu, S., Lehnhard, R., and Nightingale, C.J. (2018). PACER performance of children aged 11-14 with Attention-Deficit Hyperactivity Disorder. *Pediatric Exercise Science*, 30(2), 237-242.
- Mason, CA, Tu, S., & Liang, Q. (2017). *Math4ME Initiative 2016/2017: Examination of Change in State Mathematics Testing*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- McGuire, P., Tu, S., Logue, M.E., Mason, C.A, and Ostrow, K. (2017). Counterintuitive effects of online feedback in middle school math: results from a randomized controlled trial in ASSISTments, *Educational Media International*, 231-244.
DOI:10.1080/09523987.2017.1384161
- Engelson, M.A., Bruns, R., Nightingale, C.J., Bardwell, K.M., Mason, C.A., Tu, S., Nelson, L.W., and Butterfield, S.A. (2017). Validation of the Optogait System for monitoring treatment and recovery of post-concussion athletes. *Journal of Chiropractic Medicine*, 16, 2, 163-169. DOI: <http://doi.org/10.1016/j.jcm.2016.12.001>
- Mason, CA, & Tu, S. (2016). *Student and Teacher Use of the Internet: Potential Links to Middle School Reading and Writing Performance*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- McGuire, P., Logue, M., Mason, C.A., Tu, S., Heffernan, C., Heffernan, N., Ostrow, K. & Li, Y. (2016). To see or not to see: Putting image-based feedback in question. *Proceeding of the 2016 International Society for Technology in Education Conference*. Available online:
https://conference.iste.org/uploads/ISTE2016/HANDOUTS/KEY_100428881/ISTEResearchPaperASSISTmentsMcGuireet.al.pdf
- Runner, AR, Lehnhard, RA, Butterfield, SA, Tu, S., and O'Neil, T. (2016). Predictors of speed using off-ice measures of college hockey players. *Journal of Strength and Conditioning Research*, 30(6), 1626-1632.

- Butterfield, S.A., Mason, C.A., Tu, S, Lehnhard, R.A., & Schaper, M.E. (2015). Performance by middle school children with and without asthma on the Progressive Aerobic Cardiovascular Endurance Run (PACER). *Perceptual and Motor Skills: Physical Development and Measurement*, 120(2), 628-641.
- Doherty, D. & Tu, S. (2015). *Project Reach: Evaluation Report for 2014 Project Year*. Orono, Maine. Maine Education Policy Research Institute, University of Maine, Orono, Maine. [Technical report for U.S. Department of Education]
- Logue, ME, Tu, S., Fisher, S., & Mason, CA, (2015). *Public Preschool Programs in Maine: Four Case Studies of Quality Programs*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- Loovis, E.M., Butterfield, S.A., Mason, C.A., and Tu, S. (2015). Convergent methodologies in longitudinal research on motor skills and physical activity: Case in point – asthma research [Abstract]. *Book of Abstracts of the 20th International Symposium on Adapted Physical Activity - Adapted Physical Activity: Integration and Diversification*, (p.62). The International Federation for Adapted Physical Activity (IFAPA).
- Mason, CA, & Tu, S. (2015). *Teacher Professional Evaluation and Professional Growth Systems in Maine: 2015 Report*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- Doherty, D. & Tu, S. (2014). *Project Reach: Evaluation Report for 2013 Project Year*. Orono, Maine. Maine Education Policy Research Institute, University of Maine, Orono, Maine. [Technical report for U.S. Department of Education]
- Engelson, M.A., Bruns, R., Nightingale, C.J., Bardwell, K.M., Mason, C.A., Tu, S., Nelson, L.W., Ramirez, J.G., Healy, P.J., Hayes, C.S., and Butterfield, S.A. (2014). Correlations among BESS, ImPACT, and Optogait performance by NCAA Division I Women’s soccer players [Abstract]. *The 2014 Chiropractic Sports Sciences Symposium abstracts*. **Recipient of the John N. Nash Award for Best Multi-Disciplinary Abstract.**
- Mason, CA, & Tu, S. (2014). *Impact of Mobility on Student Outcomes in Maine*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- Mason, CA, & Tu, S. (2014). *Student, School, and Community Factors Impacting Growth and Performance in Mathematics and Reading*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]
- Mason, CA, Tu, S., & Song, Q (2014). *Linking Maine Department of Education and Maine Department of Health and Human Services Early Childhood Data*. Orono, ME: University of Maine, Maine Education Policy Research Institute. [Technical report for State Legislature]

- Runner, A., Tu, S., Lehnhard, R., O'Neill T., and Butterfield, S. (2014). Predicting linear skating speed by college ice hockey players [Abstract]. *Research Quarterly for Exercise and Sport*, 85, 1 (supplement issue).
- Tu, S., Song, Q., Liang, Q., Bhuvanagiri, S., Cobo-Lewis, C., Mason, C., and Wall, T. (2014). ChildLINK: Integrating newborn hearing screening in an early childhood health screening data system [Abstract]. *Book of Abstracts at the 2014 Hearing Across the Lifespan (HEAL) Conference*, (pp.82-83).
- Doherty, D. & Tu, S. (2013). *Project Reach: Evaluation Report for 2012 Project Year*. Orono, Maine: Maine Education Policy Research Institute, University of Maine. [Technical report for U.S. Department of Education]
- Martinson, T., Butterfield, S.A., Tu, S., Mason, C.A., and Lehnard, R.A. (2013). Aerobic Capacity in children with Attention Deficit Hyperactive Disorder [Abstract]. *Research Quarterly for Exercise and Sport*, 84(1), (supplement issue).
- Tu, S. & Fairman, J. (2012). *Maine Reading First Project Final Evaluation Report*. Orono, Maine: Maine Education Policy Research Institute, University of Maine. [Technical report for Maine Department of Education]
- Tu, S., Mitchell, S. N., Mason, C. A., Ritchie, C., & Wilson-Barker, S. (2012). *Aspiration for ME: A report on the validation of Students Speak II*. Orono, ME: University of Maine, Maine Education Policy Research Institute.
- Watson, P., Mendonca, C., Lehnhard, R.A., Tu, S., Butterfield, S.A., Bouchard, T., McKeever, K.H. (2012). The metabolic response to treadmill graded exercised: Traditional vs. underwater. *Comparative Exercise Physiology*, 8(1), 11-18.
- Tu, S., Doherty, D., Schilmoeller, K., & Schilmoeller, G. (2009). Agenesis of the corpus callosum: A literature review. In L. M. Glidden (Series Ed.) & R. M. Hodapp (Ed.), *International Review of Research in Mental Retardation: Vol. 38*. San Diego, CA: Elsevier. [Invited Book Chapter]
- Mason, C.A., and Tu, S. (2008). Data linkage using probabilistic decision rules: A primer. *Birth Defects Research, Part A: Clinical and Molecular Teratology*, 82, 812-821.
- Mason, C.A., and Tu, S. (2008). Partitioning the population attributable fraction for a sequential chain of effects. *Epidemiologic Perspectives & Innovations*, 5:5, doi:10.1186/1742-5573-5-5.
- National Birth Defects Prevention Network, Data Presentation Workgroup (2008). Chapter 11: Data Presentation. In L.E. Sever (ed). *Guidelines for Conducting Birth Defects Surveillance*. Atlanta, GA: National Birth Defects Prevention Network, Inc.

- Tu, S., Mason, C. A., & Song, Q. (2007). Second-order linkage and family datasets. In L. M. Glidden (Series Ed.), R. C. Urbano & R. M. Hodapp (Vol. Eds.), *International Review of Research in Mental Retardation: Vol. 33. Developmental Epidemiology of Mental Retardation and Developmental Disabilities* (pp. 53-78). San Diego, CA: Elsevier. [Invited Book Chapter]
- Doherty, D., Tu, S., Schilmoeller, K., & Schilmoeller, G. (2006). Health-related issues in individuals with agenesis of the corpus callosum. *Child: Care, Health, and Development*, 32(3), 333-342.
- Scott, M. S., Delgado, C. F., Tu, S., & Fletcher, K. L. (2005). Selecting and validating tasks from a kindergarten screening battery that best predict third grade educational placement. *Education and Training in Developmental Disabilities*, 40(4), 377-389.
- Mason, C. A., Walker-Barnes, C.J., Tu, S., Simons, J., & Martinez-Arrue, R. (2004). Ethnic differences in the affective meaning of parental control behaviors. *The Journal of Primary Prevention*, 25, 59-79.
- Tu, S. & Mason, C. A. (2004). Organizing Population Data into Complex Family Pedigrees: Application of a Second-Order Data Linkage to State Birth Defects Registries. *Birth Defects Research Part A (formerly, Teratology)*, 70, 603-608.
- Scott, M. S., Tu, S., & Fletcher, K. L. (2003). Cross validating a new preschool screening test. *Education and Training in Developmental Disabilities*, 38, 167-178.
- Tu, S. (2003). Developmental epidemiology: a review of three key measures of effect. *Journal of Clinical Child and Adolescent Psychology*, 32 (2), 187-192.
- Mason, C. A., Scott, K. G., Chapman, D. A., & Tu, S. (2000). A review of some individual- and community-level effect size indices for the study of risk factors for child and adolescent development. *Educational and Psychological Measurement*, 60, 385-410.
- Tu, S., Scott, M. S., Mason, C. A., & Urbano, R. C (1999). Assessing cognitive similarities among young children of different ethnic/cultural backgrounds. *Journal of Psychoeducational Assessment*, 17 (2), 113-126.
- Mason, C. A., Tu, S., & Cauce, A.M. (1996). The assessment of moderator variables: Two computer simulation studies. *Educational and Psychological Measurement*, 56, 45-62.
- Mason, C. A., & Tu, S. (1995). Estimation of factor scores via FASCOR. *Educational and Psychological Measurement*, 55, 791-794.
- Miyamoto, J. M., Gonzales, R., & Tu, S. (1995). Compositional anomalies in the semantics of evidence. In J. R. Busemeyer, R. Hastie, & D. L. Medin (Eds.), *Decision making from the perspective of cognitive psychology*. (pp. 319 -383). San Diego, CA: Academic Press. [Invited Book Chapter]

Miyamoto, J. M., Lundell, J. W., & Tu, S. (1989). Anomalous conditional judgments and Ramsey's thought experiment. *Proceeding of the Eleventh Annual Conference of the Cognitive Science Society*, 212-220, Hillsdale, NJ: Erlbaum.

Miyamoto, J. M., Lundell, J. W., & Tu, S. (1988). Conditional fallacies in probability judgment. *Bulletin of the Psychonomic Society*, 26, 516.

Kroll, N. E. A. & Tu, S. (1988). The bizarre mnemonic. *Psychological Research*, 50, 28-37.

Selected Conference/Workshop Presentations

Refereed Presentations

Liu, A.S., Chan, J.Y., Lee, J.E., Decker-Woodrow, L.E., Tu, S., Sales, A., Mason, C.A. (2022, June). *Does where you start matter? The interaction between prior knowledge and effectiveness of game-based interventions*. Presentation at the 16th International Conference of the Learning Sciences – ICLS 2022. Hiroshima, Japan (virtual).

Liu, A.S., Vanacore, K., Chan, J.Y.C., Ottmar, E.R., Shaw, S., Decker-Woodrow, L., Tu, S. (2022, June). *How math anxiety moderates the relation between feedback and persistence-related behaviors*. Presentation at the 2022 Mathematical Cognition and Learning Society Conference, Antwerp, Belgium. (Paper accepted at the MCLS 2022 Conference, but withdrawn due to COVID-19)

Inventado, P.S., Francisco Inventado, S.G., Matsuda, N., Li, Y., Scupelli, P., Ostrow, K., Heffernan, N., Tu, S., Mason, C., Logue, M., and McGuire, P. (2018, July). *Using Design Patterns for Math Preservice Teacher Education*. Presentation at the 23rd European Conference on Pattern Languages of Programs (EuroPLoP 2018). Irsee, Germany.

Tu, S. and Mason, C. (2018, June). *Long-term impact of EHDI program on educational outcomes 5 to 10 years later*. Presentation at the 2018 Hearing Across the Lifespan (HEAL) Conference, Cernobbio, Italy.

McGuire, P., Logue, M., Mason, C.A., Tu, S., Heffernan, C., Heffernan, N.T., Ostrow, K., & Li, Y. (2016, June). *To See or Not To See: Putting Image-Based Feedback in Question*. Interactive lecture presented at the International Society for Technology in Education Conference. Denver, Colorado.

Tu, S., Mason, C., and Wall, T. (2016, March). *Exploring K-5 Educational Outcomes Using EHDI Screening and Diagnostic Data*. 2016 Annual Early Hearing Detection and Intervention Conference, San Diego, California.

- Mason, C., and Tu, S. (2016, March). *Introduction to Multilevel/HLM Modeling*. Instructional Session at 2016 Annual Early Hearing Detection and Intervention Conference, San Diego, California.
- Loovis, E.M., Butterfield, S.A., Mason, C.A., and Tu, S. (2015, June). *Convergent methodologies in longitudinal research on motor skills and physical activity: Case in point – asthma research*. Presentation at the 20th International Symposium on Adapted Physical Activity, Netanya, Israel.
- Engelson, M.A., Bruns, R., Nightingale, C.J., Bardwell, K.M., Mason, C.A., Tu, S., Nelson, L.W., Ramirez, J.G., Healy, P.J., Hayes, C.S., and Butterfield, S.A. (2014, April). *Correlations among BESS, ImPACT, and Optogait performance by NCAA Division I Women's soccer players*. Presentation at 2014 Chiropractic Sports Sciences Symposium, Orlando, Florida. (Note: Winner of John Nash Award for Best Multidisciplinary Abstract).
- Tu, S., Song, Q., Liang, Q., Bhuvanagiri, S., Cobo-Lewis, C., Mason, C., and Wall, T. (2014, June). *ChildLINK: Integrating newborn hearing screening in an early childhood health screening data system*. Presentation at the 2014 Hearing Across the Lifespan (HEAL) Conference, Cernobbio, Italy.
- Runner, A., Tu, S., Lehnhard, R., O'Neill T., and Butterfield, S. (2014, April). *Predicting linear skating speed by college ice hockey players*. Annual Research Consortium Meeting of American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD), St. Louis, Missouri.
- Martinson, T., Butterfield, S., Tu, S., Mason, C., & Lehnhard, R. (2013, April). *Aerobic capacity in children with attention deficit hyperactive disorder*. Annual Research Consortium Meeting of American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD), Charlotte, North Carolina.
- Miller, S., Haberman, D., Wall, T., Mason, C., Tu, S., Brozicevic, P., Davis, K., Viner-Brown, S., Arias, W., Higgins, C., and Munshi, G. (2012, February). *The New England Birth Defects Consortium: 6-State Folic Acid/Multivitamin Distribution Project*. 2012 Annual Meeting of the National Birth Defects Prevention Network, Arlington, Virginia.
- Tu, S., Doherty, D., Moes, P., and Schilmoeller, G. (2011, May). *Health and Behavioral Characteristics Associated with Agenesis of Corpus Callosum (ACC)*. Developmental Disabilities Nurses Association and American Academy of Developmental Medicine and Dentistry 2011 Conference, Hartford, Connecticut.
- Chung, W., Mason, C.A., Tu, S., Bhuvanagiri, S., and Eichwald, J. (2010, June). *Novel Approach in Studying Follow-Up Facility Distribution in the US after a Failed Hearing Screening Result*. Presentation at the 2010 Newborn Hearing Screening Conference, Cernobbio, Italy.

- Miller, S., Haberman, D., Wall, T., Mason, C., Tu, S., Brozicevic, P., Burley, J., Davis, K., Davis, J., Viner-Brown, S., Arias, W., Higgins, C., Saltus, C., and Anderka, M. (2010, March). *Development and Initiation of the New England Birth Defects Consortium*. 2010 Annual Meeting of the National Birth Defects Prevention Network, National Harbor, Maryland.
- Tu, S., Schilmoeller, G., Schilmoeller, K., Doherty, D., & Moes, P. (2008, March). *Social, Emotional, and Cognitive Features Associated with Agenesis of Corpus Callosum*. The 41st Annual Gatlinburg Conference on Research & Theory in Intellectual & Developmental Disabilities, San Diego, California.
- Tu, S., Bhuvanagiri, S., Song, Q., and Cobo-Lewis, C. (2008, February). *Tracking and Referral via Web Reports and GIS Technology*. 2008 Annual Early Hearing Detection and Intervention Conference, New Orleans, Louisiana.
- Doherty, D. R., Tu, S., Schilmoeller, K. J., & Schilmoeller, G. L. (2006, November). *Health Profile of Individuals with Agenesis of the Corpus Callosum*. The 134th Annual Meeting of the American Public Health Association, Boston, Massachusetts.
- Doore, S., Tu, S., Song, Q., Cobo-Lewis, C., Day, P., Wall, T., & Mason, C. (2006, November). *Using GIS and Data Linkage for Birth Defects Surveillance in a Small and Rural Population*. The 134th Annual Meeting of the American Public Health Association, Boston, Massachusetts.
- Mason, C.A., and Tu, S. (2004, November). *Partitioning a Population Attributable Fraction in a Model with Sequential Effects*. The 132nd Annual Meeting of the American Public Health Association, Washington, D.C.
- Tu, S., Mason, C.A., and Song, Q. (2004, February). *QUAKE (Quadruple Key and Encryption): A protocol for Linking Sensitive Data*. 2004 Annual Early Hearing Detection and Intervention Conference, Washington, D.C.
- Tu, S., Song, Q., and Mason, C.A. (2003, November). *Use of Simulated Population Data in Evaluating Data Linkage*. The 131st Annual Meeting of American Public Health Association, San Francisco, California.
- Mason, C.A., and Tu, S. (2003, April). *Epidemiological Effects in Developmental Models: A Causal Model Approach to Partitioning a Population Attributable Fraction*. The Biennial Meeting of the Society for Research in Child Development, Tampa, Florida.
- Mason, C. A. and Tu, S. (2002, November). *Child LINK: A State Government-University Informatics Collaboration*. The 130th Annual Meeting of American Public Health Association, Philadelphia, Pennsylvania.

- Scott, M. S., Tu, S., and Fletcher, K. L. (2001, March). *Cross validating a new preschool screening test*. The 34th Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Charleston, South Carolina.
- Mason, C. A. and Tu, S. (2000, March). *Epidemiological measures of effect in developmental research*. The 33rd Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, San Diego, California.
- Mason, C. A., Tu, S., & Chapman, D. A. (1999, June). *A community-level perspective on the study of risk: An introduction to epidemiological measures of effect*. The meetings of the Society for Community Research and Action, New Haven, Connecticut.
- Jean-Francois, B., Scott, M. S., Mason, C. A., & Tu, S. (1998, March). *An evaluation of a screening test adapted for testing Haitian children*. The 31st Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, South Carolina.
- Tu, S., Urbano, R. C., & Scott, M. S. (1997, April). *Early cognitive profiles in culturally diverse Groups*. The Biennial Meeting of the Society for Research in Child Development, Washington, DC.
- Tu, S. & Miyamoto, J. M. (1996, November). *Theory dependence of nonmonotonicity in categorical arguments*. The 37th Annual Meeting of the Psychonomic Society, Chicago, Illinois.
- Tu, S. & Miyamoto, J. M. (1995, November). *Theory-based categorical induction with blank predicates*. The 36th Annual Meeting of the Psychonomic Society, Los Angeles, California.
- Tu, S. & Kerr, F. B. (1993, May). *End of major interviews in psychology*. The Fourth Annual State of Washington Higher Education Assessment Conference, Olympia, Washington.
- Miyamoto, J. M., Lundell, J. W., & Tu, S. (1989, August). *Anomalous conditional judgments and Ramsey's thought experiment*. The Eleventh Annual Conference of the Cognitive Science Society, Ann Arbor, Michigan.
- Miyamoto, J. M., Lundell, J. W., & Tu, S. (1988, November). *Conditional fallacies in probability judgment*. The 29th Annual Meeting of the Psychonomic Society, Chicago, Illinois.
- Invited Presentations*
- Tu, S. (2018, March). *Statistics and Research Methods for Speech Pathologists*. Training at the Taiwan Speech Language Pathologist Union Meeting, Taipei, Taiwan.

This was an invited day-long training to researchers, faculty, and practicing speech pathologists and audiologists on research methodology, analysis, and statistical software.

Tu, S. (2018, March). *Statistics for Audiologists*. Training at the Mackay Medical College, New Taipei, Taiwan.

This was an invited half-day training to researchers, faculty, and students in the Department of Audiology and Speech Language Pathology on research methodology, analysis, and statistical software.

Tu, S. (2017, August). *The Importance of an EHDI Data Management System*. The first conference on family-centered early intervention for deaf/hard of hearing children and their families, Yinchuan, China.

Tu, S., & Mason, C. A. (2015, November). *Linking Early Childhood and Educational Data for Informing Education and Health Policy*. SRI International, Menlo Park, California.

Wall, T., Tu, S., & Mason, C. A. (2015, September). *Predicting Educational and Developmental Outcomes Based on EHDI Status*. Maine Department of Health and Human Services, Augusta, Maine.

Wall, T., Tu, S., & Mason, C. A. (2015, July). *ChildLINK: An Overview*. Maine Center for Disease Control and Prevention, Augusta, Maine.

Mason, C. A., Tu, S., & Song, Q. (2014, November). *Measuring Impact of the EHDI Program Through Demonstrating Linkages with Early Educational Outcomes: The Maine Experience*. Centers for Disease Control and Prevention, Division of Human Development and Disability (DHDD) Science Seminar, Atlanta, Georgia.

Tu, S., & Mason, C. A. (2009, November). *ChildLINK Data System*. Maine Child Care Research Network Meeting, Orono, Maine.

Tu, S., Mason, C. A., & Song, Q. (2008, September). *Maine Birth Defects Program*. Centers for Disease Control and Prevention, Birth Defects Regional Meeting, Durham, New Hampshire.

Schilmoeller, G., Schilmoeller, K., Tu, S., & Doherty, D. (2006, May). *Health Characteristics Associated with Agenesis of the Corpus Callosum*. Invited presentation at the Multidisciplinary Psychiatric Grand Rounds, Bangor, Maine.

Tu, S. (2006, February). *Data Linkage Strategies and Issues*. Invited presentation at the 2006 Annual Early Hearing Detection and Intervention Conference, Washington, D.C.

- Tu, S. & Song, Q. (2004, October). *Data Linkage and De-Duplication*. Invited presentation for the Centers for Disease Control and Prevention teleconference on Data Quality and De-Duplication.
- Schilmoeller, G., Schilmoeller, K. & Tu, S. (2004, August). *Children with ACC and Their Siblings: How alike are they?* Invited presentation at the 2004 ACC (Agenesis of the Corpus Callosum) Conference, Madison, Wisconsin.
- Mason, C.A., Tu, S., Cobo-Lewis, C., and Day, P. (2004, January). *Enhancing Birth Defects Surveillance and Public Health Programs Through Record Linkage in Maine*. Invited presentation at the Seventh Annual Meeting of the National Birth Defects Prevention Network, Salt Lake City, Utah.
- Tu, S. (2003, July). *Data and Data Systems for Special Education Research in Developmental Epidemiology*. Invited presentation at the 2003 Epidemiology & Disability Training Seminar Sponsored by the Association of University Centers on Disabilities and Centers for Disease Control and Prevention, Atlanta, GA.
- Mason, C.A., and Tu, S. (2003, February). *Issues and Challenges in Second-Order Integrated Developmental Database Systems*. Invited presentation at the Centers for Disease Control and Prevention / National Association for Public Health Statistics and Information Systems Annual Assessment Initiative Conference, Atlanta, Georgia.
- Mason, C.A., and Tu, S. (2003, February). *Tracking and Reporting of Infants Identified as At-Risk for Hearing Loss*. Invited presentation at the Centers for Disease Control and Prevention 2nd Annual National Conference on Early Hearing Detection and Intervention, Atlanta, Georgia.
- Tu, S., and Mason, C.A. (2003, February). *Use of Data Obtained Through Early Hearing Detection and Intervention Programs*. Invited presentation at the Centers for Disease Control and Prevention 2nd Annual National Conference on Early Hearing Detection and Intervention, Atlanta, Georgia.

Funded Research/Grant Activities

- U.S. Department of Education. (2020-2025). Cross-disciplinary Online Training to Promote Augmentative and Alternative Communication and Tele-intervention for Maine (CONTRACT-ME). Total Cost: \$1.25M. (PI: S. Tu, 2022-2026; PI: D.L. Rooks-Ellis, 2020-2022)
- Maine Child Development Services (2022-2023). Early Childhood Educator Pathways Project (ECEPP). Total Cost: \$793,645. (PI: S. Tu)

- U.S. Department of Health and Human Services (2020 – 2021). Transdisciplinary Predoctoral Training in Biomedical Science and Engineering (Supplement). Total Cost: \$116,800. (PI: C. Henry, Co-PI: S. Tu)
- U.S. Department of Education (2018 – 2021). The Efficacy of From Here to There: A Dynamic Technology for Improving Algebraic Understanding. Total Costs: \$399,974 (UMaine Sub-award) (PI: E. Ottmar, Co-PI on UMaine Sub-award: S. Tu)
- Maine Department of Health and Human Services (2013 – 2019). Children’s Health Screening Database, Case Management and Long-term Follow-up Surveillance and Tracking System. Total Cost: \$1,496,957. (PI: S. Tu)
- U.S. Centers for Disease Control and Prevention (2011 – 2016). Development, Maintenance and Enhancement of Early Hearing Detection and Intervention. Total Cost: \$875,000 (PI: T. Wall, Co-PI: S. Tu)
- U.S. Department of Education (2011-2014). ARRA: Maine State Longitudinal Data System Educational Research. Total Cost: \$511,385. (PI: C. Mason, Co-PI: S. Tu)
- Maine Developmental Disabilities Council (2011-2013). Maine Autism Spectrum Disorders Development Project: Facilitating Autism Screening and Treatment (FAST) Data System. Total Cost: \$47,504. (PI: S. Tu)
- Maine Department of Health and Human Services (2004-2012). Biobehavioral Informatics for Newborn Screening. Total Cost: \$1,285,396. (PI: S. Tu)
- Maine Department of Health and Human Services (2009 - 2011). Electronic Birth Defects Registry. Total Cost: \$58,700. (PI: S. Tu)
- U.S. Department of Health and Human Services (2005-2006). Partnership for Early Childhood Health and Service. Total Cost: \$248,000. (PI: C. Mason, Co-PI: S. Tu)
- U.S. Department of Health and Human Services (2001 – 2003). Children at Risk Project. Total Cost: \$1,452,002. (PI: D.K. Oller, Acting Co-PI: S. Tu)
- Florida Department of Education (01/01/99 – 06/30/01). Children’s Registry and Information System (CHRIS). Total Cost: \$712,295. (PI: K.G. Scott, Co-PI: S. Tu)
- Florida Department of Education (01/01/99 – 06/30/01). Florida Diagnostic Learning and Resources Systems /University of Miami (FDLRS/UM). \$1,465,953. (PI: K.G. Scott)

Awards/Honors/Special Recognition

Dean’s Research and Creative Achievement Award, 2019
College of Education and Human Development, University of Maine

Dean's Service and Engagement Award, 2018
College of Education and Human Development, University of Maine

Blue Sky Faculty Fellows, inaugural cohort, 2013-2015
University of Maine

Professional Organizations

Association for Psychological Science
Cognitive Development Society
International Mind, Brain, and Educational Society
National Birth Defects Prevention Network (NBDPN)
Psychonomic Society

Selected Service

Reviewer for Journals or Organizations:

International Conference of the Learning Sciences
International Review of Research in Mental Retardation
Journal of Clinical Child and Adolescent Psychology
Journal of Early Hearing Detection and Intervention
Journal of Early Intervention
Journal of Registry Management
Journal of Zhejiang University – SCIENCE B (Publisher: Springer)
National Birth Defects Prevention Network
University of Colorado, Colorado Springs, tenure and promotion application

National, Regional, and State Level:

Early Hearing Detection and Intervention (EHDI) Data Committee (2007 – Present)
National Birth Defects Prevention Network (NBDPN) Data Committee (2007 – Present)
New England Birth Defects Consortium (NEBDC), founding member (2009 – 2016)
Maine Dept. of Education Educator Talent Committee (April 2019 – 2022)
Maine Dept. of Education Program Review Team – NVU Graduate Program in Clinical Mental Health Counseling (2018)
Maine State Agency Interdepartmental Early Learning and Development Team (2015 – 2016)
Maine Dept. of Education State Workgroup on Services for Children with Low Incidence Sensory Disabilities (2008-2009)
Penobscot River Educational Partnership, Teacher Preparation Committee (2019 – Present)
Teacher Education Alliance of Maine (TEAMe) (2019 – Present)

University, College, and School/Department Level:

University of Maine

EVPAA and Provost Search Committee (2020)
 IPhD Policy, Procedure, and Admissions Committee (2014 – Present)
 M.Ed. in Instructional Technology Program Steering Committee (2019 – Present)
 UMaine Data Literacy Institute (2022-2023)
 UMaine Institute of Medicine Steering Committee (2020 – Present)
 Faculty Senate (2006 – 2012; 2014 – 2017)
 Ad hoc Committee on Shared Governance (2015 - 2017)
 Financial and Institutional Planning Committee (2007 – 2012; 2016 – 2017)
 Program Creation and Reorganization Review Committee (2014 – 2015)
 Academic Affairs Committee (Chair: 2011 – 2012)
 Executive Committee (2008 – 2010; 2011 – 2012)
 Committee on Committees (2007 – 2010; Chair: 2008 – 2010)
 Constitution & Bylaws Committee (2007 – 2008)
 Scientific Misconduct Committee (2014 – 2017)
 Student Conduct Code Committee (2006 – 2015)
 University Research Council (2012 – 2015)
 Advisory Committee (2013 – 2015)
 Indirect Cost Return Committee (Chair: 2012-2013)
 Presidential Public Service Award Committee (2010 – 2013)
 University Budget Advisory Team (2009 – 2010)
 Interdisciplinary Disability Studies Academic Committee (2002 – 2008)

College of Education and Human Development, UMaine

Leadership Team (Fall 2018 – Present)
 AFUM Representative (2013 – 2015)
 Awards Committee (Fall 2018)
 Bylaws Committee (Chair: 2016 – 2017)
 CAEP Steering Committee (2019 – Present)
 Ad hoc Committee on Rubric (2019 – 2020)
 Rubric Revision Committee (Chair: 2020 – Present)
 Dean's Advisory Board (2018-2019)
 Educational Psychology PhD Program Planning Committee (2005-2008)
 Graduate Affairs Committee (2010 – 2013)
 Curriculum Committee (2010 – 2013)
 Lancaster Professional Development Fund Committee (2010 – Present; Chair: 2017 – Present)
 Peer Committee (2010 – 2013)
 Research Methods Core Courses Coordinator (2010 – 2013)
 Search Committee for COEHD Postdoctoral Research Associate in Teacher Education (2022)
 Search Committee for COEHD Dean's Office Administrative Specialist CL3 (Confidential)
 (Chair, 2020)
 Search Committee for COEHD Dean's Office Accreditation Data Specialist (May – June 2019)
 Search Committee for COEHD Dean (2006 – 2007; 2011 – 2012)

Search Committee for Counselor Education faculty position (2012 – 2013; 2014 – 2015)
 Search Committee for Science Education faculty position (Chair: 2010 – 2011)
 Search Committee for Science Education faculty position – joint appointment with RiSE Center
 (2010 – 2011)
 Search Committee for psychometrician faculty position (2008)
 Susan Glines Scholarship Committee (Fall 2019)
 Valedictorian and Salutatorian Nomination Committee (2019 – 2022)

School of Learning and Teaching, UMaine

Bylaws Committee (Chair: 2017 – 2018)
 Graduate School Scholarship Nomination Committee (2020 – Present)
 Graduate Student Research Forum Planning Committee (2018-2019)
 Peer Committee (2016 – 2018)
 Policy Advisory Committee (Chair: 2019 – Present)
 Research Brown Bag Coordinator (2020 – Present)
 Search Committee for Special Education faculty position (Chair: 2016 – 2017)
 Undergraduate Programs Committee (2019 – Present)

Department of Exercise Science and STEM Education, UMaine

Peer Committee (2013 – 2015)
 Policy Advisory Committee (2013 – 2015)

Teaching Experience/Grant

Cognition
 Cognitive Development
 Experimental Psychology
 Introductory Bio-Behavioral Statistics
 Introduction to Educational Research
 Introductory Psychology
 Laboratory in Experimental Psychology
 Laboratory in Statistical Computation
 Parenting
 Statistical Methods in Education

Instructional Advancement Grant (1995), University of Miami Computer-Aided Curriculum in Experimental Psychology	\$2,270
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