

BRUCE W. AUSTIN, MS, MA

The Learning & Performance Research Center,
Department of Kinesiology & Educational Psychology
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EDUCATION

Master of Arts in Educational Psychology: December 2015.

Washington State University, Pullman, WA

Area of specialization: educational psychology (Psychometrics, Statistical Methods)

Thesis: *Mixed Item Response Theory Models for Adjusting Response Styles in Cross-Cultural Datasets.*

Master of Science in Statistics: May 2000.

Washington State University, Pullman, WA

Area of specialization: Statistics

Thesis: *Data Analysis and Nonlinear Model Development for the Degradation of Acrylic Melamine by Hydrolysis and Photolysis.*

Bachelor of Arts in Mathematics: June 1983.

George Washington University, Washington, D.C.

Area of concentration: Pure mathematics with an emphasis in computer science.

PROFESSIONAL EXPERIENCE

Research Associate Professor, Career Track, July 2021 – Present. The Learning and Performance Research Center (LPRC), Department of Kinesiology & Educational Psychology (KEP), College of Education (COE), Washington State University (WSU), Pullman, WA.

The focus of my position is to provide statistical support for the mission of the LPRC, KEP, and COE. This support is delivered in the form of Research, Collaboration, Consulting, and Outreach. My contract formally stipulates the following percentages:

- 85% effort for research on funded grants and projects, proposal writing, consulting (further detail provided in the Scholarship statement).
- 10% devoted to teaching.
- 5% service.

Research

My research interest is in the development of statistical techniques that address issues and standards of fairness and equity in assessment data. Specific focus includes measurement invariance, response styles, psychometric methods, and methods for identifying and correcting sources of non-invariance in predictive equations that produce test bias or differential prediction. I have developed correction factors to improve predictive validity caused by slope and intercept

bias across groups. An additional line of research includes examining the use of measures of variability as predictor variables. Products from this effort primarily consist of refereed first-authored journal articles.

Collaboration

Collaboration on projects with WSU and external researchers includes, but is not limited to, statistical analysis and design, assistance developing grant proposals, and promotion of the research mission of the LPRC. I have helped developed collaborative relationships with WSU faculty in The Murrow College of Communication, Human Development, Psychology, The Elson S. Floyd School of Medicine, and WSU Extension, as well as external relationships with the University of Washington, Oregon Health Sciences University, the University of Louisville, and The Center for Children & Youth Justice. Products from these efforts have led to co-authorship on refereed journal articles and conference papers/posters. It is also my privilege to be able to work with graduate students on various projects as well as teaching graduate level statistics.

Consulting

I am tasked with providing statistical consulting services for COE faculty and advanced graduate students with outcomes, where possible, of advancing research collaboration for the LPRC and producing research products such peer-reviewed publications and conference presentations.

Engagement

I am part of the WSU faculty collaboration team supporting the Portal for Supporting Successful Outcomes (PSSO), and the Washington Assessment of the Risks and Needs of Students (WARNS). PSSO and WARNS are outreach projects that apply research and development performed by the LPRC at WSU. PSSO is an online user and data management assessment platform and WARNS is an online assessment designed for use with truant students. Subscriptions to the PSSO/WARNs system are providing an income stream to support continued research on truancy abatement by the WSU team. This project has involved collaboration with WSU researchers and individuals at the Washington State Courts, and outreach to counselors in more than 108 school districts, juvenile courts, and youth services organizations.

Statistical Expertise

I have experience using a wide range of statistical methods for work on projects or funded grants resulting in various products including refereed publications or conference presentations:

Experimental Design	Mixture Modeling
Planned Missing Data Designs	Latent Variable Modeling
Estimation with Missing Data (e.g., FIML, model design)	Latent Growth Curve Modeling
Missing Data Imputation (e.g., multiple imputation)	Structural Equation Modeling (SEM)
Linear/Logistic Regression	Longitudinal SEM
Elastic Net	Bayesian SEM
Exploratory and Confirmatory Factor Analysis	Item Response Models / Classical Test Theory
ANOVA/ANCOVA	Latent Class Analysis / Latent Profile Analysis
MANOVA/MANCOVA	Power Analysis
Multi-level Modeling	Montecarlo Simulation Studies
Longitudinal Analysis	

Research Assistant Professor, February 2016 – July 2021. The Learning and Performance Research Center (LPRC), Department of Kinesiology & Educational Psychology (KEP), College of Education (COE), Washington State University (WSU), Pullman, WA.

The intent and focus of my Research Associate position was essentially the same as my current Research Assistant Professor position in terms of a mission to provide statistical support for the LPRC, KEP, and COE. My original contract in 2016 formally stipulated the following percentages:

- 90% of my effort would be focused on, and funded by, “active involvement in survey and educational test development and statistical analysis work”.
- 10% devoted to proposal writing, consulting, and scholarship.

Graduate Research Assistant, 2013 – 2015

Department of Educational Leadership, Sport Studies, & Educational/Counseling Psychology, Washington State University, Pullman, WA

Responsibilities included work on various research projects including issues with cross-cultural measurement invariance and response styles. Also assisted various faculty members with research projects and classes as needed.

Project Manager, 2000 – 2014

The Social and Economic Sciences Research Center (SESRC), Washington State University, Pullman, WA

Responsibilities included project management, statistical analysis, and consulting. Duties included interacting with clients and managing project team members, development of survey instruments, writing SAS and SPSS programs to analyze and report on data collected by telephone, mail, and internet survey methods,

Business Owner, 1989 – 2000. Austin Woodworking, Pullman, WA.

Systems Engineer, 1986 – 1989. Sun Microsystems, Milpitas, CA.

Systems Engineer, 1986 – 1989. Verbatim Corporation, Sunnyvale, CA.

Computer Operator, 1984 – 1985. Rolm Corporation, Santa Clara, CA.

Computer Operator, 1984. Specialty Brands, Inc., San Francisco.

Computer Operator, 1981 – 1983. George Washington University, Washington, D.C.

PUBLICATIONS

Google Scholar Citations = 475

H-index = 11

i10-index = 11

Refereed Articles

- Austin, B. W.**, Austin, E. W., French, B. F., Hae Y. S. (under review). Building a Validation Argument for Two Media Literacy Scales. *Communication Methods and Measures*.
- Vo, T., Demir, C., French, B. F., **Austin, B. W.**, Strand, P. S. (under review). Latent Profile Similarity of Middle and High School Youth Risk and Needs. *Journal of School Psychology*.
- Ramazan, O., Dai, S., Danielson, R. W., Ardasheva, Y., Hao, T., & **Austin, B. W.** (under review). Students' 2018 PISA reading self-concept: Identifying predictors and examining model generalizability for English learners. *Journal of School Psychology*.
- Austin, E. W., Borah, P., **Austin, B. W.**, Smith, C. L., Amram, O., Domgaard, S., McPherson, S. M., Willoughby, J. F., (2023). Media Literacy's Role in the Mitigation of Disinformation Effects on Substance Misuse. *Journal of Substance Use*.
- Dunn, M., Davis, W., Allen, M., Olson, W., Yuan, W., Aldousari, A., Alharbi, H., & **Austin, B.**, (2023). Webtools as strategy: Online resources to support academic writing in lower-division STEM courses. *Journal of Literacy & Technology*.
- Hao, T., Dai, S., Ardasheva, Y. Ramazan, O., Danielson, R. W., & **Austin, B. W.** (2023). PISA Reading Achievement: Identifying Predictors and Examining Model Generalizability for Multilingual Students. *Journal of Research on Educational Effectiveness*.
- Ramazan, O., Danielson, R. W., Rougée, A., Ardasheva, Y., & **Austin, B. W.** (2023). Effects of Classroom and School Climate on Linguistically Diverse Students' PISA Mathematics Self-Concept and Achievement Scores. *Large-scale Assessments in Education*.
- Willoughby, J. F., Hust, S. J. T., Couto, L., Kang, S., Pingel, B., Li, J., **Austin, B. W.**, Brooks, O., Burduli, E., & Barbosa-Leiker, C. (2023). Examining science and media literacy health communication messages to reduce intentions to use cannabis while pregnant. *Psychology of Addictive Behaviors*.
- Austin, E. W., **Austin, B. W.**, Power, T. G., Parker, L., Kaiser, K., & Edwards, Z., (2022). Youth Perspectives on the Effects of a Family-Centered Media Literacy Intervention to Encourage Healthier Eating. *Health Communication*. 1-14.
- Austin, E. W., **Austin, B. W.**, Borah, P., Domgaard, S., McPherson, S., (2022). How Media Literacy, Trust of Experts and Flu Vaccine Behaviors Associated with COVID-19 Vaccine Intentions. *American Journal of Health Promotion*. 10.1177/08901171221132750
- Zhang, X., **Austin, B. W.**, & Ardasheva, Y. (2022). New Directions in L2 Self-Efficacy Research: Comparing Bifactor and Second-Order Models in the English Public Speaking Domain. *Journal of Psycholinguistic Research*. DOI: 10.1007/s10936-022-09910-7

- Strand, P. S., French, B. F., & **Austin, B. W.**, (2021). Assessment of the Risks and Needs of Middle School Students: Invariance Properties Related to Gender and Ethnicity. *Assessment*. DOI: 10.1177/10731911211062505
- Austin, E. W., **Austin, B. W.**, Willoughby, J. F., Amram, O., & Domgaard, S., (2021). How media literacy and science information literacy predicted the adoption of protective behaviors amidst the COVID-19 pandemic. *Journal of Health Communication*. 26(4), 239-252. DOI: 10.1080/10810730.2021.1899345
- Austin, B. W.**, & French, B. F. (2020). Adjusting Group Intercept and Slope Bias in Predictive Equations. *Methodology*, 16(3), 241-257. <https://doi.org/10.5964/meth.4001>
- Morrison, J., Frost, J., Gotch, C., Roth McDuffie, A., **Austin, B. W.**, & French, B. (2020). Teachers' role in students' learning at a project-based STEM high school. *International Journal of Science and Mathematics Education*. 1-21.
- Austin, E. W., **Austin, B. W.**, Kaiser, K., Edwards, Z., Parker, L., & Power, T. G., (2020). A media literacy-based nutrition program fosters parent-child food marketing discussions, improves home food environment and youth consumption of fruits and vegetables. Invited manuscript in a special issue of *Journal of Childhood Obesity*. 16(S1), S-33.
- Austin, E. W., **Austin, B. W.**, & Kaiser, K. (2020). Effects of Family-Centered Media Literacy Training on Family Nutrition Outcomes. *Prevention Science*, 21(3), 308-318.
- Cox, A. E., Ullrich-French, S., & **Austin, B. W.** (2020). Testing the Roles of Trait and State Mindfulness in Facilitating Autonomous Physical Activity Motivation. *Mindfulness*. 11(4), 1018-1027. DOI: 10.1007/s12671-020-01311-y
- Zhang, X., Ardasheva, Y., & **Austin, B. W.** (2020). Self-efficacy and English public speaking performance: A mixed method approach. *English for Specific Purposes*, 59, 1-16.
- Austin, E. W., **Austin, B. W.**, French, B. F., & Cohen, M. (2018). The effects of a nutrition media literacy intervention on parents' and youths' communication about food. *Journal of Health Communication*, 23(2), 190-199. DOI: 10.1080/10810730.2018.1423649
- Austin, E. W., Deen, M. K., **Austin, B. W.**, Kaiser, C. K., Kallman, D., Edwards, Z., Stefani, W., Kistler, M., Cohen, M., Johnson, B., Parker, L., & Power, T. (2018). Foodmania: Effects of a Curriculum Using Media Literacy as the Catalyst to Improve Parent-Child Discussion and Food Behaviors. *Journal of Nutrition Education and Behavior*, 50(7), S116. DOI: 10.1016/j.jneb.2018.04.257.
- Strong, Z. H., Carbonneau, K. J., & **Austin, B. W.** (2018). "I Plan to Attend College": Gender, Parent Education, and Academic Support Differences in American Indian and Alaska Native Educational Aspirations. *Journal of American Indian Education*, 57(2), 35-57.
- Austin, B. W.**, French, B. F., Adesope, O. O., & Gotch, C. M. (2017). Use of Standard Deviations as Predictors in Models Using Large-Scale International Data Sets. *The Journal of Experimental Education*, 85(4), 559-573.
- Hoffman, E. W., Austin, E. W., Pinkleton, B. E., & **Austin, B. W.** (2017). An Exploration of the Associations of Alcohol-Related Social Media Use and Message Interpretation Outcomes to Problem Drinking Among College Students. *Health Communication*, 1-8.

- Austin, E. W., Muldrow, A. F., & **Austin, B. W.** (2016). Examining How Media Literacy and Personality Factors Predict Skepticism toward Alcohol Advertising. *Journal of Health Communication, 21*(5), 600-609.
- Austin, B. W.**, Adesope, O. O., French, B. F., Gotch, C. M., Bélanger, J., & Kubacka, K. (2015). Examining school context and its influence on teachers: linking Talis 2013 with PISA 2012 student data. OECD Education Working Papers, No. 115, OECD Publishing, Paris. DOI: 10.1787/5js3f5fgkns4-en
- Austin, E. W., Pinkleton, B. E., Chen, Y. C., & **Austin, B. W.** (2015). Processing of sexual media messages improves due to media literacy effects on perceived message desirability. *Mass Communication and Society, 18*(4), 399-421.
- Austin, E. W., Pinkleton, B. E., **Austin, B. W.**, & Van de Vord, R. (2012). The Relationships of Information Efficacy and Media Literacy Skills to Knowledge and Self-efficacy for Health-Related Decision Making. *Journal of American College Health, 60*(8), 548-554.

Refereed Book Chapters

- Adesope, O. O., **Austin, B. W.**, French, B. F., & Gotch, C. M. (2014). Examining teacher practices and classroom environment. In OECD (Eds.), *TALIS 2013 Results: An International Perspective on Teaching and Learning*. (pp. 149-179). TALIS, OECD Publishing. DOI: 10.1787/9789264196261-en

Curriculum Project

- Austin, E. W., Cohen, M., Deen, M.K., Parker, L., Power, T., Barale, K., Brandt, B., Brown, S., Cummins, M., Fees, J., Scanga, L. H., Varrella, G., Viebrock, M., Kistler, M., Johnson, B., Adler, C., Hua, V., **Austin, B. W.**, Edwards, Z., Kallman, D., Kaiser, K., & Stefani, W. (2017). *FoodMania Curriculum Project*. Pullman: Washington State University.

Technical Reports, Manuals, and Websites

- Austin, B. W.**, (2022). *REU Site: Waves in the Universe and Technology: Year 2 Formative Evaluation*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.**, (2021). *Defining 21st Century Lifelong Learning Skills for Engineering Practice, Evaluation – Tasks 2, 3, 4*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.**, (2021). *REU Site: Waves in the Universe and Technology Year 1 Formative Evaluation*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.**, (2020). *Defining 21st Century Lifelong Learning Skills for Engineering Practice, Evaluation - Task 1*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.**, & French, B. F., Vo, T. T., (2020). *The 2020 WARNS Covid-19 Impact Survey: Executive Summary*. Pullman, WA: Learning & Performance Research Center, Washington State University.

- Austin, B. W.,** French, B. F., & Vo, T. T., (2020). *The 2020 WARNS User Survey*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.,** & French, B. F. (2019). *PLAN (PLA2G6-associated neurodegeneration) Feasibility Study of Latent Growth Models of Disease Progression*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.,** & French, B. F. (2018). *The 2018 WARNS Non-User Survey*. Pullman, WA: Learning & Performance Research Center, Washington State University.
<http://warns.wsu.edu/documents/2018/06/537.pdf>
- Austin, B. W.,** & French, B. F. (2018). *The 2018 WARNS User Survey*. Pullman, WA: Learning & Performance Research Center, Washington State University.
<https://warns.wsu.edu/documents/2018/04/2018-warns-user-survey-report.pdf>
- Austin, B. W.,** & French, B. F. (2017). *PSSO User Manual*. Pullman, WA: Learning & Performance Research Center, Washington State University.
<https://warns.wsu.edu/documents/2017/09/pssu-user-manual.pdf/>
- Austin, B. W.,** & French, B. F. (Eds.), (2017). *WARNS Technical Manual*. Pullman, WA: Learning & Performance Research Center, Washington State University.
<https://warns.wsu.edu/documents/2018/01/warns-technical-manual.pdf/>
- Austin, B. W.,** & French, B. F. (Eds.), (2017). *WARNS User Manual*. Pullman, WA: Learning & Performance Research Center, Washington State University.
<https://warns.wsu.edu/documents/2018/01/warns-user-manual.pdf/>
- Austin, B. W.,** French, B. F., & Lin, J. (Eds.), (2017). *WARNS Information Website*. Pullman, WA: The Learning & Performance Research Center, Washington State University.
<https://warns.wsu.edu/>
- French, B. F., & **Austin, B. W.** (2017). *PKAN (Pantothenate Kinase-Associated Neurodegeneration): Feasibility Study of Latent Growth Models of Disease Progression*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.,** & Gotch, C. M. (2016). *Impact and experiences of Imagine Tomorrow 2016*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.,** & Gotch, C. M. (2016). *Participant Feedback on the Imagine Tomorrow 2016 Experience*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Gotch, C. M., **Austin, B. W.,** French, B. F., Frost, J., Gates, G., Roth-McDuffie, A., & Morrison, J. (2016). *Riverpoint Academy Partnership: Year 2 Summary of Work*. Pullman, WA: Learning & Performance Research Center, Washington State University.
- Austin, B. W.,** & Gotch, C. M. (2015). *Impact and experiences of Imagine Tomorrow 2015*. , Pullman, WA: Learning & Performance Research Center, Washington State University.
- Tarnai, J., & **Austin, B. W.** (2009). *2007-2009 Braam Outcomes Survey of Foster Parents and Caregivers in Washington State*. Pullman, WA: Social & Economic Sciences Research Center, Washington State University.

Additional technical reports produced and published by the SESRC at WSU.

CONFERENCE & PROFESSIONAL PRESENTATIONS

Chronological & Alphabetical Order

- Strand, P., **Austin, B. W.**, French, B. F., Vo, T., (2022, October). *Keep the Conversation Going: An In-Depth Q&A Session with WARNS, Washington Youth ChalleNGe Academy, & David Lewis*. Oral presentation at the annual Becca Conference sponsored by the Center for Children and Youth Justice. Ellensburg.
- Strand, P., **Austin, B. W.**, French, B. F., Vo, T., (2022, October). *WARNS Update: An Interactive Demonstration of Improvements to the Online Software Platform*. Oral presentation to a plenary session at the annual Becca Conference sponsored by the Center for Children and Youth Justice. Ellensburg.
- Austin, E. W., Borah, P., **Austin, B. W.**, Smith, C. L., Amram, O., Willoughby, J. F., McPherson, S., & Domgaard, S., (2021, November). *Media Literacy's Role in the Mitigation of Disinformation Effects on Substance Misuse*. Paper presented at the annual 2021 meeting of the National Communication Association. Seattle, WA.
- Austin, B. W.**, French, B. F., Gotch, C. M., Poppen, M., Roduta Roberts, M. (2021, October). *WARNS IES Grant: An Interactive Session Seeking Guidance and Suggestions for the Initial Grant Activities*. Oral presentation at the annual Becca Conference sponsored by the Center for Children and Youth Justice. Virtual Conference.
- Austin, E. W., **Austin, B. W.**, Willoughby, J. F., Amram, O., & Domgaard, S., (2021, May). *How Media Literacy and Science Media Literacy Predicted the Adoption of Protective Behaviors Amidst the COVID-19 Pandemic*. Paper presented at the annual 2021 meeting of the International Communication Association. Virtual Conference.
- Hao, T., Dai, S., Ardasheva, Y. Ramazan, O., Danielson, R. W., & **Austin, B. W.** (2021, April). *Student 2018 PISA Reading Achievement: Identifying Predictors and Examining Model Generalizability for English Learners*. Paper presented [Poster Session] at the annual meeting of American Educational Research Association (AERA), Virtual Conference. <https://tinyurl.com/y62xk73u>
- Ramazan, O., Dai, S., Danielson, R. W., **Austin, B. W.**, Hao, T., & Ardasheva, Y. (2021, April). *Students' 2018 PISA Reading Self-Concept: Identifying Predictors and Examining Model Generalizability for English Learners*. Paper presented [Roundtable Session] at the annual meeting of American Educational Research Association (AERA), Virtual Conference. <https://tinyurl.com/y4bnkruh>
- Austin, E. W., **Austin, B. W.**, Kaiser, K., Edwards, Z., Parker, L., Power, T. G., (2020, May). *Effects of a Family-Centered Media Literacy Intervention Cultivating Child-Initiated Discussion to Encourage Healthier Eating*. Paper presented at the annual 2020 meeting of the International Communication Association. Gold Coast, Australia.
- Onyewuenyi, A. C., Higheagle Strong, Z. & **Austin, B. W.** (2020, Apr 17 - 21) *Is the Whole Greater Than Its Parts? Resilience and Academic Outcomes Among Ethnically Diverse Adolescents* [Roundtable Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/rou4eg3> (Conference Canceled)

- Strand, P. S., **Austin, B. W.**, Vo, T., Demir, C., French, B. F., (2019, November). *New developments with the WARNS*. Oral presentation to the annual Becca Conference. Ellensburg WA.
- Zhang, X., **Austin, B. W.**, & Ardasheva, Y. (2019, April). *Model Comparison for English Public Speaking Self-Efficacy: Bifactor versus Second-Order Models*. Roundtable paper presented to the annual meeting of American Educational Research Association (AERA), Toronto.
- Austin, B. W.**, Vo, T. (2017-2020, various). *WARNS Trainings for 2017- 2020*. Presented by phone/Zoom to **105** school districts, juvenile courts, and youth service providers. Learning & Performance Research Center, Pullman, WA.
- Austin, B. W.**, Strand, P. S., & Lovrich, N. P., French, B. F. (2018, October). *The WARNS User Panel*. Plenary panel session at the annual Becca Conference, Ellensburg, WA.
- Austin, B. W.**, French, B. F. (2018, April). *Moderating Group Intercept Bias in Predictive Equations*. Paper presentation given at the National Council on Measurement in Education, New York, NY.
- Cox, A. E., Ullrich-French, S., **Austin, B. W.** (2018, August). *Testing the Processes by Which Yoga may Support Physical Activity Motivation*. Poster presented to The North American Society for the Psychology of Sport and Physical Activity, Denver, CO.
- Austin, E. W., Deen, M. K., **Austin, B. W.**, Kaiser, C. K., Kallman, D., Edwards, Z., Stefani, W., Kistler, M., Cohen, M., Johnson, B., Parker, L., Power, T. (2018, July). *Foodmania: Effects of a Curriculum Using Media Literacy as the Catalyst to Improve Parent-Child Discussion and Food Behaviors*. Poster presented at the annual conference for the Society for Nutrition Education and Behavior (SNEB), Minneapolis, MN.
- Strand, P. S., **Austin, B. W.**, Lovrich, N. P., Vo, T., & French, B. F. (2018, October). *WARNS: Purposes, Technical Advances, and Challenges*. Breakout session presented at the annual Becca Conference, Ellensburg, WA.
- Adesope, O. O., Hunsu, N. J., & **Austin, B. W.** (2017, June). *WIP: Assessing Engineering Students' Motivation and Learning Strategies - A Psychometric Analysis of the Motivated Strategies for Learning Questionnaire*. 2017 American Society of Engineering Education Conference, Columbus, OH.
- Austin, B. W.**, French, B. F., & Alpizar, D. (2017, April). *Response Styles and the Mixed PCM IRT Model: A Simulation*. Paper presentation at the 2017 meeting of the National Council of Measurement in Education, San Antonio, TX.
- Austin, B. W.**, French, B. F., Strand, P. S., & Lovrich, N. P. (2017, September). *Washington Assessment of the Risks and Needs of Students (WARNS) Online Instrument and Reporting Platform*. Oral presentation given at Washington State ESD 123, Pasco, WA.
- Austin, B. W.**, French, B. F., Strand, P. S., & Lovrich, N. P. (2017, October). *Washington Assessment of the Risks and Needs of Students (WARNS) Online Instrument and Reporting Platform*. Oral presentation given at Washington State ESD 105, Yakima, WA.
- Austin, B. W.**, French, B. F., Strand, P. S., & Lovrich, N. P. (2017, October). *Washington Assessment of the Risks and Needs of Students (WARNS) Online Instrument and Reporting*

- Platform*. Oral presentation given at Washington State Becca Conference, Center for Children and Youth Justice, Seattle, WA.
- Austin, B. W.**, Strand, P. S., & Lovrich, N. P. (2017, June). *Washington Assessment of the Risks and Needs of Students (WARNS) Online Instrument and Reporting Platform*. Oral presentation given at Washington State ESD 114, Poulsbo, WA.
- Austin, E. W., **Austin, B. W.**, French, B. F., & Cohen, M. (2017, May). *The Effects of a Nutrition Media Literacy Intervention on Parents and Children*. Paper presentation at the 2017 meeting of the International Communication Association, San Diego, CA.
- Austin, E. W., Deen, M. K., Cohen, M., Johnson, B., Power, T., **Austin, B. W.**, Kistler, M., Edwards, Z., Kallman, D., & Kaiser, K. (2017, July). *Stage 2 field testing of a family-based media literacy and nutrition program to prevent childhood obesity*. Poster presented to the Society for Nutrition Education and Behavior, Washington, D.C.; *Journal of Nutrition Education and Behavior*, 49 (7), S110. DOI: 10.1016/j.jneb.2017.05.083
- Edwards, Z., Austin, E. W., Deen, M. K., Cohen, M., Johnson, B., Parker, L., Power, T., Kistler, K., & **Austin, B. W.** (2017, June). *Foodmania: Kids & Food in a Marketing Driven World--a Family-Based Media Literacy and Nutrition Childhood Obesity Prevention Program*. Paper presented at the Society for Prevention Research, Washington, D.C.
- Kaiser, C.K., Austin, E. W., Power, T., Kistler, M., **Austin, B. W.**, Edwards, Z., & Kallman, D. (2017, November). *Nutrition focused media literacy empowers families to make healthier food choices in a marketing saturated environment*. Paper presented at the American Public Health Association Annual Meeting, Atlanta, GA.
- Austin, B. W.**, & French, B. F. (2016, April). Moderating Measurement Non-Invariance in Predictive Equations. In Flake, J. (Chair), *Addressing Practical Issues in Measurement Invariance Research: Methodological Investigations and Advances*. Paper presented at invited symposium conducted at the meeting of the American Education Research Association, Washington, DC.
- Austin, B. W.**, French, B. F., Adesope, O. O., & Gotch, C. M. (2016, April). *Response Style Adjustments in Cross-Cultural Data Using the Mixture PCM IRT Model*. Poster presented at the meeting of the National Council of Measurement in Education, Washington, DC.
- Austin, B. W.**, French, B. F., & Sternod, L. (2016, June). The Accuracy of the Mixed Partial Credit Model for Identifying and Adjusting Data for Response Styles. In J. L. Padilla (Chair), *A Mixed Methods Approach to Response Styles Bias in Cross-Cultural Research*. Paper presented at invited symposium conducted at the Conference of the International Test Commission, Vancouver, BC.
- Austin, E. W., Shultz, J. A., Deen, M. K., Cohen, M., Johnson, B., Power, T., **Austin, B. W.**, & Kaiser, K. (2016, August). *Field Testing of a Family-Based Media Literacy and Nutrition Program to Prevent Childhood Obesity*. Poster presented at the annual conference of the Society for Nutrition Education and Behavior, San Diego, CA.
- Adesope, O. O., **Austin, B. W.**, French, B. F., & Gotch, C. M. (2015, April). Relationships between Teaching Practices, Classroom Climate and Teacher Beliefs: International Perspectives. In V. Darleen Opfer (Chair), *Lessons Learned from the Teaching and*

Learning International Survey (TALIS 2013). Symposium conducted at the meeting of the American Educational Research Association, Chicago, IL.

Austin, B. W., French, B. F., & Adesope, O. O. (2015, April). *The Effect of Response Style Adjustments on Measures of Variability*. Paper and poster presented at the meeting of the National Council of Measurement in Education, Chicago, IL.

Austin, B. W., French, B. F., Adesope, O. O., & Gotch, C. M. (2015, April). *Using Standard Deviations of Student Measures to Predict Teacher Practices*. Poster presented at the meeting of the American Education Research Association, Chicago, IL.

Austin, B. W., French, B., & Adesope, O. O. (2014, November). *Use of Standard Deviations as Predictor Variables in Multilevel Models*. Poster session presented at Advances in Multilevel Modeling for Educational Research: Addressing Practical Issues Found in Real-World Applications, University of Maryland, MD.

WSU Presentations:

Presented: College of Education Methods Workshop: Grants, Collaboration, Consulting (March 2019).

Presented ongoing research at the 2014, 2015, and 2016 Washington State University Academic Showcase poster presentations.

CONTRACTS, GRANTS AND SPONSORED RESEARCH

Funded - Current

Austin, E. W. (Principal Investigator), Bolls, P. (Co-Investigator), Edwards, Z. (Co-Investigator), Austin, B. W. (Co-Investigator), "Getting to the Heart of the Matter: Extension Professional Vaccination Education Willingness, Confidence and Beliefs," Sponsored by USDA, CDC, Federal, \$299,990.00. (December, 2021 – April, 2023).

Austin, E. W. (Principal Investigator), Borah, P. (Co-Investigator), Austin, B. W. (Co-Investigator), Smith, C. L. (Co-Investigator), Amram, O., Willoughby, J. F. (Co-Investigator), McPherson, S. (Co-Investigator), "Mitigation of Misinformation Effects on Substance Use," Sponsored by ADARP, WSU, \$29,000. (January, 2023 – May, 2024).

Collins, B. (Principal Investigator), Saam, B. (Collaborator), Austin, B. W. (Collaborator), "REU Site: Waves in the Universe and Technology," Sponsored by NSF, Federal, \$409,800.00. (2021-2024).

Egbert, J. (Principal Investigator), ..., Austin, B. W. (Collaborator), "Creating a model of language task engagement: Process and outcome", Sponsored by Mitchell Foundation, Non-Federal. (2019 - 2022).

French, B. F. (Principal Investigator), Austin, B. W. (Collaborator), "A phase 2 study of the nutritional management of PKAN, a rare inborn error of metabolism, using a remote trial design," Sponsored by HHS, Non-Federal, \$189,397. (2019 – 2022).

French, B. F. (Principal Investigator), Gotch, C. M. (Co-Investigator), Austin, B. W. (Co-Investigator), "BRIGANCE Screens Standardization Project," Sponsored by Curriculum Associates, Non-Federal, \$261,672. (2019 – 2022).

French, B. F. (Co-Principal Investigator), Gotch, C. (Co-Investigator), Frost, J. (Co-Investigator), Morrison, J. (Co-Investigator), Austin, B. W. (Collaborator), "Riverpoint Academy and the Components of Success," Sponsored by private donor: Scott E. Carson, \$500,000. (2017 - ongoing).

McMoran, D. (Principal Investigator), French, B. (Collaborator), Austin, B. W. (Collaborator), Western Regional Agricultural Stress Assistance Program. Sponsored by USDA-NIFA, Federal, \$460,000 of \$7,000,000. (2021 – 2023).

Strand, P. S. (Principal Investigator), French, B. F. (Co-Investigator), Gotch, C. M. (Co-Investigator), Austin, B. W. (Co-Investigator), Poppen, M. I. (Co-Investigator), "Refinement and Further Development of the Washington Assessment of Risk and Needs of Students," Sponsored by IES, Federal, \$1,399,587.00. (2021 – 2025).

Strong, Z. (Principal Investigator), Lokensgard, K. (Co-PI), Fountain, S. M. (Co-PI), Sanders, C. (Co-PI), Johnson, S. R. (Co-PI), Austin, B. W. (Co-PI), "New Beginnings for Tribal Students (NBTS)", Sponsored by USDA-NIFA, Federal, \$288,172. (2020 – 2023).

Strong, Z. (Principal Investigator), Lokensgard, K. (Co-Investigator), Fountain, S. M. (Co-Investigator), Sanders, C. M. (Co-Investigator), Austin, B. W. (Co-Investigator), "PMU: Culturally Sustaining/Revitalizing Approach to Native American Undergraduate Recruitment, Retention and Nation Building," Sponsored by USDA-NIFA, Federal, \$249,172.00.

Funded - Completed

Phillips, A. (Principal Investigator), Austin, B. W. (External Evaluator), "Collaborative Research: Research Initiation: Defining 21st Century Lifelong Learning Skills for Engineering Practice". Sponsored by NSF, Federal, \$166,667. (2019-2021).

French, B. F. (Principal Investigator), Austin, B. W. (Collaborator), "A natural history study of beta-propeller protein-associated neurodegeneration (BPAN)," Sponsored by UNIV PA, Non-Federal, \$17,991.00. (2019 - 2020)

French, B. F. (Principal Investigator), Austin, B. W. (Collaborator), "PLANready Natural History Study," Sponsored by Inadure Foundation, Non-Federal, \$18,000.00. (2019).

French, B. F. (Co-Principal Investigator), Austin, B. W. (Co-Principal Investigator), Poppen, M. I. (Co-Principal Investigator), "Dynamic Online Assessment Platform for Underserved Students," Sponsored by Internal, \$10,000.00. (2017 - 2019).

Strong, Z. (Principal Investigator), Carbonneau, K. J. (Co-Co-PI), Austin, B. W. (Collaborator), "How do Teachers' Behaviors and Classroom Environments Promote Identity Safety, Growth Mindset, and Performance for Underserved Students?" Sponsored by Raikes Foundation, Non-Federal, \$19,158. (2017 - 2018).

- Austin, E. (Principal Investigator), ..., Austin, B. W. (Collaborator), "PMU: A Family-Based Media Literacy Approach to Improving Youth and Family Nutrition", no-cost extension, Sponsored by USDA, Federal, \$499,406. (2017 - 2018).
- Austin, E. (Principal Investigator), Deen, M., Shultz, J., Parker, L., Power, T., Brandt, B., Brown, S., Calodich, S., Barale, K., Cummins, M., Hrcirik, L., Varrella, G., Viebrock, M., Babcock, D., Arganbright, M., Austin, B. W. (Collaborator), "PMU: A Family-Based Media Literacy Approach to Improving Youth and Family Nutrition", Sponsored by USDA, Federal, \$2,500,000. (2012 - 2017).
- Austin, E. W. (Principal Investigator) Pinkleton, B. (Co-PI), Hust, S. (Co-PI), Austin, B. W. (Co-PI), "Descriptive versus Injunctive Norms for Alcohol Abuse Prevention in a College Greek System - Phase 4", Sponsored by ABMFR/Foundation for Alcohol Research, Non-Federal, \$10,000. (2016).
- Gotch, C. (Principal Investigator), Austin, B. W. (Collaborator), "Impact and Experiences of Imagine Tomorrow 2016", Sponsored by multiple funding sources, Non-Federal, \$9,771. (2016).

Funded In-Kind Contributions

- Austin, B. W. (Director), "Washington Assessment of the Risks and Needs of Students (WARNS)," Sponsored by various subscribing organizations, Non-Federal, ~ \$115,000. (2017 – ongoing).

Submitted and Under Review or in Development

- Austin, E. W. (Principal Investigator), Bolls, P. (Co-Investigator), Austin, B. W. (Senior Staff), "Getting to the Heart of the Matter: Extension Professional Vaccination Education, Part II," Sponsored by USDA, CDC, Federal, \$349,338. (June, 2023 – November, 2024).
- Austin, E. (Principal Investigator), Deringer, N. (Co-Investigator), Shors, B. (Co-Investigator), Simmons, T. (Co-Investigator), French, B. F. (Senior Staff), Austin, B. W. (Senior Staff), "Project Wonder: A Science Media Literacy Mobile App for Latino and Rural Youth", Sponsored by NSF, Federal, \$1,999,897 (2024 – 2027).
- French, B. F. (Principal Investigator), Austin, B. W. (Collaborator), "How the input shapes vocal development in children at genetic risk for language disorders," Sponsored by HHS, Non-Federal, \$395,927.00.
- Shenghai, D. (Principal Investigator), Carbonneau, K., (Co-PI), Ardasheva, Y. (Co-PI), Danielson, R., (Co-PI), Strong, Z. H., (Co-PI), Austin, B. W. (Co-PI), "Identifying Malleable Factors and Practices Supporting Culturally and Linguistically Diverse Students' STEM Learning: What Can We Learn from NAEP and State Policies?", Sponsored by IES, Federal, \$ 1,104,789.00. (2022 – 2026).

DEVELOPMENT ACTIVITIES ATTENDED

- Workshop: Introduction to Machine Learning, Washington state University, Pullman, WA. (June 1 - 2, 2021).
- Workshop: Network Analysis of Qualitative Data, Washington state University, Pullman, WA. (May 14 - 15, 2020).
- Workshop: Mixed Methods, Washington state University, Pullman, WA. (May 9 - 10, 2019).
- Workshop: Latent Growth Curve Modeling, Washington state University, Pullman, WA. (May 10 - 11, 2018).
- Conference Attendance: International Communication Association, San Diego, CA. (May 25 - 28, 2017).
- Workshop: Bayesian Statistical Analysis, Washington state University, Pullman, WA. (May 11 - 12, 2017).
- Conference Attendance: American Education Research Association/National Council on Measurement in Education, AERA/NCME, San Antonio, TX. (April 27, 2017 - April 29, 2017).
- Workshop: Introduction to R Programming, Washington state University, Pullman, WA. (April 12, 2017).
- Workshop: Longitudinal Structural Equation Modeling, Washington state University, Pullman, WA. (2016)
- Workshop: Advanced Structural Equation Modeling, Washington state University, Pullman, WA. (2015)
- Workshop: Latent Class Analysis, Washington state University, Pullman, WA. (2014)
- Workshop: Structural Equation Modeling, Washington state University, Pullman, WA. (2013)
- Professional courses completed through Sun Microsystems, specific to the Sun Workstation, included Unix, Unix Programming Tools, and System Administration.
- Professional education courses completed through Hewlett Packard included Turbo Image, Advanced Systems Management, and MPE Special Capabilities.

TEACHING

Graduate and Undergraduate Teaching at WSU:

- ***Educational Statistics*** (ED PSYCH 508), Instructor, every Fall 2016 – 2022.
Average student evaluation teaching effectiveness score is 4.66 out of 5 since 2016.
- ***Educational Statistics*** (ED PSYCH 508), Teaching Assistant, Fall 2015.
- ***Statistical Methods in Research*** (STAT 412), Instructor, Summer 2011.
- ***Introduction to Statistics*** (STAT 212). Instructor, Fall 2003.
- ***Regression Analysis*** (PS 504). Instructor, Spring 2002.

Training Seminars Given for WSU faculty, staff, students, and external clients:

- **Statistical & Data Management Training**, Instructor, the Washington State Employment Security Division, Olympia, Washington, August 2013.
- **Statistical & Data Management Training**, Instructor, the Washington State Department of Transportation, Bellevue, Washington, August 2013.
- **Statistical & Data Management Training**, Instructor, the Joint Legislative Audit Review Committee, Olympia, Washington, October 2008.
- **Structural Equation Modeling for Academic Research**: Instructor, faculty of the College of Communication.
- **SAS ODS Reporting System**: Instructor, staff members at the SESRC.

SERVICE

State

Member, The Becca Task Force. (2017 – present). Washington State legislative task force charged with synthesizing and advancing information on state-wide efforts to address truancy and chronic absenteeism among K-12 students.

University and College

Member, Mentor Committee for Anya Sheftel. (July 2022 – ongoing). Mentor committee for a research career track faculty member in the College of Education.

Member, CISER Search Committee. (January – August 2022). Committee to hire an Associate Director for the center.

Member, CEFAC (September 2020 – June 2022). The College of Education Faculty Affairs Committee.

Member, Career track Titles Committee. (October 2019 - May 2020). Committee to establish criteria for the Career Tracks designations. Specifically worked on criteria for the Research Professor track.

Member, CISER Search Committee. (July – August 2017). Committee to hire a PhD level statistical consultant for the center.

Member, College of Education Five Percent Reallocation RFP. (March - June 2016). Worked with Sola Adesope to draft the College of Education proposal.

Professional

Reviewer, two article submissions, *Journal of Health Communication*. (2021).

Reviewer, two article submissions, *Studies in Educational Evaluation*. (2020).

Reviewer, One article submission, *Journal of Engineering Education*. (2019).

Reviewer, One article submission, *Studies in Educational Evaluation*. (2018).

Reviewer, One article submission, *Journal of Engineering Education*. (2017).

Reviewer, three article submissions, *Journal of Engineering Education*. (2016).

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA); Division D - Measurement and Research Methodology. 2014 – present.

National Council on Measurement in Education. 2014 – present.

SOFTWARE EXPERTISE

I have extensive experience and expertise with the following statistical software packages:

MPLUS, SAS, SPSS, IRTPRO, flexMIRT, R, LAVAAN, WinBUGS, Winmira, Lisrel, and Comprehensive Meta-Analysis.