

CURRICULUM VITAE

Cengiz Zopluoglu, Ph.D.
Associate Professor
Department of Special Education and Clinical Services

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TEACHING AND RESEARCH INTERESTS

Educational measurement and statistics, particularly item response theory and its applications.
Data Science applications in Education.

EDUCATIONAL RECORD

- July, 2013 Ph.D. in Quantitative Methods in Education, Department of Educational Psychology, College of Education and Human Development, University of Minnesota
Dissertation title: *Assessing Dimensionality of Latent Structures Underlying Dichotomous Item Response Data with Imperfect Models*
Dissertation chair: Dr. Ernest C. Davenport
- July, 2009 M.A. in Quantitative Methods in Education, Department of Educational Psychology, College of Education and Human Development, University of Minnesota
Dissertation title: *The Effects of Test Length, Amount of Copying, and Ability Levels of Examinees in Answer Copying Pairs on the Power of the Omega Index*
Dissertation chair: Dr. Ernest C. Davenport
- July, 2005 B.A. in Elementary School Mathematics Teaching, Abant Izzet Baysal University, Bolu, Turkey

EMPLOYMENT HISTORY

2020 – Present	Associate Professor, College of Education, University of Oregon
2019 – 2020	Associate Professor, School of Education and Human Development, University of Miami
2013 – 2019	Assistant Professor, School of Education and Human Development, University of Miami
2009 – 2013	Graduate Assistant, Teaching and Research, College of Education and Human Development, University of Minnesota
Jun – Aug 2012	Psychometrics Research Intern, ACT, Inc.
Sep 2008 – Jan 2009	Psychometrics Research Intern, Minneapolis Public Schools
2005 – 2006	Mathematics Teacher, Gazipasa Elementary School, Bolu, Turkey

TEACHING EXPERIENCE

2020 – Present	College of Education, University of Oregon
2013 – 2020	School of Education and Human Development, University of Miami
2009 -2013	Teaching Assistant, College of Education and Human Development, University of Minnesota

RESEARCH ACTIVITY

* = student author

A. Refereed Journal Articles

39. **Zopluoglu, C.** & Lockwood, JR (2024). A Comparative study of item response theory models for mixed discrete-continuous responses. *Journal of Intelligence*, 12(3), 26. <https://doi.org/10.3390/jintelligence12030026>
38. *Duff, J.H., *Scarpa, M., **Zopluoglu, C.**, & Prilleltensky, I. (2024). The development and initial validation of the Multidimensional Fairness Scale. *Social Justice Research*, 37, 213-238. <https://doi.org/10.1007/s11211-024-00440-2>
37. Dietz, S., Prilleltensky, I., McMahon, A., **Zopluoglu C.**, Lipsky, M. (2023). Assessing a culture of belonging in a higher education context: Development and initial validation of the Culture of Belonging Barometer. *Journal of Student Affairs Research and Practice*, 61(2), 202-218. <https://doi.org/10.1080/19496591.2023.2221210>

36. *Kasli, M., **Zopluoglu, C.**, & Toton, S. (2023). A deterministic gated lognormal response time model to identify examinees with item preknowledge. *Journal of Educational Measurement*, 60(1), 148-169. <https://doi.org/10.1111/jedm.12340>
35. Wang J., *Combs T., **Zopluoglu C.** (2022). Fitting hyperbolic cosine unfolding models using the Stan Language. *Journal of Applied Measurement*, 23(1/2), 61-73.
34. *Scarpa, M.P., **Zopluoglu, C.**, & Prilleltensky, I. (2022). Mattering in the community. Domain and demographic differences in a US sample. *Journal of Community Psychology*, 50(3), 1481-1502. <https://doi.org/10.1002/jcop.22728>
33. *Scarpa, M.P., **Zopluoglu, C.**, & Prilleltensky, I (2022). Assessing multidimensional mattering: Development and exploratory validation of the Mattering in Domains of Life Scale (MIDLS). *Journal of Community Psychology*, 50(3), 1430-1453. <https://doi.org/10.1002/jcop.22725>
32. **Zopluoglu, C.**, *Kasli, M., & Toton, S. (2021). The effect of item preknowledge on response time: Analysis of two datasets using the multiple-group lognormal response time model with a gating Mechanism. *Educational Measurement: Issues and Practices*, 40(3), 42-51. <https://doi.org/10.1111/emip.12428>
31. *Patel, Z.S., Jensen-Doss, A. & **Zopluoglu, C.** (2021). Illustrating the applicability of IRT to implementation science: Examining an instrument of therapist attitudes. *Administration and Policy in Mental Health Services Research*, 48, 921-935. <https://doi.org/10.1007/s10488-021-01139-1>
30. *Lee, J., **Zopluoglu, C.**, Andersen, L., Stanton, A., Magidson, J., Kagee, A., Joska, J.A., O’Cleirigh, C., & Safren, S.A. (2021). Improving the measurement of food insecurity among people with HIV in South Africa: A Psychometric Examination. *Public Health Nutrition*, 24(12), 3805-3817. <https://doi.org/10.1017/S1368980021001312>
29. *Park, S.E., Ahn, S., & **Zopluoglu, C.** (2021). Differential item functioning effect size from the multigroup confirmatory factor analysis for a meta-analysis: A simulation study. *Educational and Psychological Measurement*, 81(1), 182-199. <https://doi.org/10.1177/0013164420925885>
28. de l’Etoile, S. K., Bennett, C., & **Zopluoglu, C.** (2020). Infant movement response to auditory rhythm. *Perceptual and Motor Skills*, 127(4), 651-670. <https://doi.org/10.1177/0031512520922642>
27. Prilleltensky, I., Dietz, S., **Zopluoglu, C.**, Clarke, A., Lipsky, M., & Hartnett, C. (2020). Assessing a culture of mattering in a higher education context. *Journal for the Study of Postsecondary and Tertiary Education*, 5, 58-104. <https://doi.org/10.28945/4539>

26. **Zopluoglu, C.** (2020). A finite mixture item response theory model for continuous measurement outcomes. *Educational and Psychological Measurement*, 80(2), 346–364. <https://doi.org/10.1177/0013164419856663>
25. **Zopluoglu, C.** (2019). Computation of response similarity index M4 in R under the dichotomous and nominal item response models. *International Journal of Assessment Tools in Education*, 6(5), 1-19. <https://doi.org/10.21449/ijate.527299>
24. **Zopluoglu, C.** (2019). Detecting examinees with item preknowledge in large-scale testing using Extreme Gradient Boosting (XGBoost). *Educational and Psychological Measurement*, 79(5), 931–961. <https://doi.org/10.1177/0013164419839439>
23. Kohli, N., *Peralta, Y., **Zopluoglu, C.**, & Davison, M.L. (2018). A note on estimating single-class piecewise mixed-effects models with unknown change points, *International Journal of Behavioral Development*, 42(5), 518-524. <https://doi.org/10.1177/0165025418759237>
22. Sideridis, G.D., & **Zopluoglu, C.** (2018). Validation of response similarity analysis for the detection of academic cheating: An experimental study. *Journal of Applied Measurement*, 19(1), 59-75.
21. *Sari, H.I., Huggins-Manley, A.C., & **Zopluoglu, C.** (2017). Comparing item selection methods in multidimensional computerized adaptive testing under different types of multidimensional structures. *International Journal of Recent Scientific Research*, 8 (8), 19269-19276. <http://recentscientific.com/sites/default/files/8247-A-2017.pdf>
20. de l'Etoile, S., *Behura, S., & **Zopluoglu, C.** (2017). Acoustic parameters of infant-directed singing in mothers of infants with Down syndrome. *Infant Behavior and Development*, 49, 151-160. <https://doi.org/10.1016/j.infbeh.2017.09.001>
19. **Zopluoglu, C.**, & Davenport, E.C. (2017). A note on using eigenvalues in dimensionality assessment. *Practical Assessment, Research & Evaluation*, 22 (7), 1-10. <https://scholarworks.umass.edu/pare/vol22/iss1/7/>
18. Brogaard, B., Marlow, K., Overgaard, M., Schwartz, B., **Zopluoglu, C.**, Tomson, S., Neufeld, J., Sinke, C., Owen, C., Eagleman, D. (2017). Deaf hearing: Implicit discrimination of auditory content in a patient with mixed hearing loss. *Philosophical Psychology*, 30(1-2), 21-43. <https://doi.org/10.1080/09515089.2016.1268680>
17. Myers, N. D., Ahn, S., *Lu, M., *Celimli, S., & **Zopluoglu, C.** (2017). Reordering and reflecting factors for simulation studies with exploratory factor analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(1), 112-128. <https://doi.org/10.1080/10705511.2016.1230721>
16. **Zopluoglu, C.** (2016). Classification performance of answer-copying indices under different types of IRT models. *Applied Psychological Measurement*, 40(8), 592-607.

<https://doi.org/10.1177%2F0146621616664724>

15. Kohli, N., Harring J.R., & **Zopluoglu, C.** (2016). A finite mixture of nonlinear random coefficient models for continuous repeated measures data. *Psychometrika*, *81*(3), 851-880. <https://doi.org/10.1007/s11336-015-9462-0>
14. **Zopluoglu, C.** (2015). Evaluating the sampling performance of exploratory and cross-validated DETECT procedure with imperfect models. *Multivariate Behavioral Research*, *50*(6), 632-644. <https://doi.org/10.1080/00273171.2015.1070708>
13. Kohli, N., Hughes, J., Wang, C., **Zopluoglu, C.**, & Davison, M. (2015). Fitting a linear-linear piecewise growth mixture model with unknown knots: A comparison of two common approaches to inference. *Psychological Methods*, *20*(2), 259-275. <http://dx.doi.org/10.1037/met0000034>
12. Kohli, N., Sullivan, A., Sadeh, S., & **Zopluoglu, C.** (2015). Longitudinal mathematics development of students with learning disabilities and students without disabilities: A comparison of linear, quadratic, and piecewise linear mixed effects models. *Journal of School Psychology*, *53*(2), 105-120. <https://doi.org/10.1016/j.jsp.2014.12.002>
11. **Zopluoglu, C.**, Harring J.R., & Kohli, N. (2014). FitPMM: An R routine to fit finite mixture of piecewise mixed-effect models with unknown random knots. *Applied Psychological Measurement*, *38*(7), 583-584. [Computer software]. <https://doi.org/10.1177/0146621614540482>
10. Myers, N.D., Jin, Y., Ahn, *S., Celimli, S., & **Zopluoglu, C.** (2015). Rotation to a partially specified target matrix in exploratory factor analysis in practice. *Behavior Research Methods*, *47*(2), 494-505. <https://doi.org/10.3758/s13428-014-0486-7>
9. Van Norman E., Christ, T. J., **Zopluoglu, C.** (2013). The effects of baseline estimation on the reliability, validity, and precision of CBM-R growth estimates, *School Psychology Quarterly*, *28*(3), 239-255. <http://dx.doi.org/10.1037/spq0000023>
8. Christ, T. J., Monaghan, B., **Zopluoglu, C.** & Van Norman, E. R. (2013). Curriculum-Based measurement of oral reading: Evaluation of growth estimates derived with pre-post assessment methods. *Assessment for Effective Intervention*, *38*(3), 139-153. <https://doi.org/10.1016/j.jsp.2012.11.001>
7. **Zopluoglu, C.** (2013). A comparison of two estimation algorithms for Samejima's continuous IRT model. *Behavior Research Methods*, *45*(1), 54-64. <https://doi.org/10.3758/s13428-012-0229-6>
6. Christ, T.J., **Zopluoglu, C.**, Monaghan, B., & Van Norman, E.R. (2013). Curriculum-based measurement of oral reading: Multi-study evaluation of schedule, duration and dataset quality on progress monitoring outcomes. *Journal of School Psychology*, *51*(1), 19-57. <https://doi.org/10.1016/j.jsp.2012.11.001>

5. **Zopluoglu, C.** (2013). CopyDetect: An R package to compute statistical indices for detecting answer copying on multiple-choice tests. *Applied Psychological Measurement*, 37(1), 75-77. [Computer software]. <https://doi.org/10.1177/0146621612463119>
4. **Zopluoglu, C.** & Davenport, E.C. (2012). The empirical power and type-I error rates of the GBT and Omega indices in detecting answer copying on multiple-choice tests. *Educational and Psychological Measurement*, 72(6), 975-1000. <https://doi.org/10.1177/0013164412442941>
3. Christ, T. J., **Zopluoglu, C.**, Long, D. J., & Monaghan, B.D. (2012). Curriculum-Based measurement of oral reading (CBM-R): Quality of progress monitoring outcomes. *Exceptional Children*, 78(3), 356-373. <https://doi.org/10.1177/001440291207800306>
2. **Zopluoglu, C.** (2012). EstCRM: An R package for Samejima's continuous IRT model. *Applied Psychological Measurement*, 36(2), 149-150. [Computer software]. <https://doi.org/10.1177/0146621612436599>
1. **Zopluoglu, C.** (2012). A cross-national comparison of intra-class correlation coefficient in educational achievement outcomes. *Journal of Measurement and Evaluation in Education and Psychology*, 3(1), 242-278. <http://dergipark.gov.tr/epod/issue/5803/77225>

B. Manuscript Submitted for Publication

C. Presentations

26. Siebert, J. M., Catts, H., Petscher, Y., Pei, F., Gorno Tempini, M., & Zopluoglu, C. (2024, April). *Universal reading screening for California: Linguistically sensitive task selection and prediction evaluation*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.
25. Pratt, A., Jasso, J., Duran, L., Zegers, M., & Zopluoglu, C. (2024, April). *Item difficulty in English/Spanish sentence repetition tasks and correlations with English proficiency*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.
24. Zegers, M., Zopluoglu, C., Siebert, J. M. (2024, April). *Spanish word reading: Considerations for item selection, stimulus analysis, and item difficulty*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.
23. Durán, L., Zopluoglu, C., Zegers, M., & Siebert, J. M. (2024, April). *Conceptual scoring in universal screening: An example using expressive vocabulary*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.

22. Durán, L., Zegers, M., Zopluoglu, C., Pei, F., & Gorno-Tempini, M. (2024, February). *Conceptual scoring of expressive vocabulary in a new bilingual universal screening measure*. Paper presented at the annual meeting of the Pacific Coast Research Conference, Coronado Bay, CA.
21. Kezer, M., Zopluoglu, C., Hodges, S. (2023, February). *Predicting normative judgments of moral dilemmas using natural language processing*. Poster presented at the annual meeting of the Society for Personality and Social Psychology, Atlanta, GA.
20. Zopluoglu, Cengiz. (2022, April). *Simultaneous estimation of compromised items and examinees with item preknowledge using response time data*. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA.
19. Man, K., Haring, J.R., & Zopluoglu, C. (2019, October). *Application of a new method for multiple-group analysis of jointly modeling the item responses, response times, and visual fixation counts*. Paper presented at the Conference on Test Security, Miami, FL.
18. Zopluoglu, C., Belov, D., & Wollack, J.A. (2019, October). *Validation of graph theory approach to detect test collusion network using an experimental real dataset*. Paper presented at the Conference on Test Security, Miami, FL.
17. Kasli, M. & Zopluoglu, C. (2019, October). *A deterministic gated lognormal response time model to identify examinees with item preknowledge*. Paper presented at the Conference on Test Security, Miami, FL.
16. Zopluoglu, C. (2018, October). *Response similarity analysis using R*. Workshop at the Conference on Test Security, Park City, UT.
15. Zopluoglu, C. (2018, October). *Detecting examinees with item preknowledge using Extreme Gradient Boosting (XGBoost)*. Paper presented at the Conference on Test Security, Park City, UT.
14. Kasli, M. & Zopluoglu, C. (2018, October). *Do people with item preknowledge really respond faster to items they had prior access? An empirical investigation*. Paper presented at the Conference on Test Security, Park City, UT.
13. Zopluoglu, C. (2018, April). *Dimensionality as it relates to primary latent factors, sub-scores, and item parcels*. Paper presented at the annual meeting of National Council on Measurement in Education, New York, NY.
12. Zopluoglu, C. (2017, April). *A finite mixture IRT model for continuous measurement outcomes*. Paper presented at the annual meeting of National Council on Measurement in Education, San Antonio, TX.

11. Zopluoglu, C. (2016, November). *A finite mixture IRT model for continuous measurement outcomes*. Paper presented at the annual meeting of Florida Educational Research Association, Cocoa Beach, FL.
10. Sari, H.I., Zopluoglu, C., & Huggins-Manley, A.C. (2015, April). *Comparing item selection methods in multidimensional computerized adaptive testing under different types of multidimensional structures*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
9. Zopluoglu, C. & Davenport, E.C. (2015, April). *A note on using eigenvalues in dimensionality assessment*. Paper presented at the annual meeting of National Council on Measurement in Education, Chicago, IL.
8. Zopluoglu, C. (2014, November). *Evaluating the sampling performance of exploratory and cross-validated DETECT procedure with imperfect models*. Paper presented at the annual meeting of Florida Educational Research Association, Cocoa Beach, FL.
7. Zopluoglu, C. (2014, November). *Performance of response similarity indices under different types of IRT models*. Paper presented at the annual meeting of Florida Educational Research Association, Cocoa Beach, FL.
6. Elbaum, B., Noyes-Grosser, D.M., Siegenthaler, K., Romanczyk, R.G., Cavalari, R.N., Carter, R.L., Barczykowski, A.L., Zopluoglu, C. (2014, May). *Assessing family outcomes of early intervention: Utility of items specific to families of a child with autism spectrum disorder*. Paper presented at the International Meeting for Autism Research, Atlanta, GA.
5. Kohli, N., Harring, J. R., & Zopluoglu, C. (2014, July). *A finite mixture of nonlinear random coefficient models for continuous repeated measures data*. Paper presented at the annual meeting of the International Meeting of the Psychometric Society (IMPS), Madison, WI.
4. Zopluoglu, C., Chen, T.T., Huang, C.Y., & Mroch, A.A. (2013, October). *The performance of statistical indices in detecting answer copying on multiple-choice examinations using dichotomous item scores*. Paper presented at the 2nd Annual Conference on the Statistical Detection of Potential Test Fraud, Madison, WI.
3. Bulut, O. & Zopluoglu, C. (2013, April). *Item parameter recovery of the Graded Response Model using the R package ltm: A Monte Carlo Simulation study*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, CA.
2. Zopluoglu, C., Chen, T.T., Huang, C.Y., & Mroch, A.A. (2013, April). *Using previous test performance to improve the efficiency of statistical indices in detecting answer copying on multiple-choice examinations*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, CA.

1. Zopluoglu, C., & Davenport, E.C. (2011, April). *The effects of answer copying on the ability level estimates of cheater examinees in answer copying pairs*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA.

D. External Funding

AY = Academic Year
SM = Summer Months

Funded Grants

Literacy Screener for Alaska Indigenous Languages (Dr. Gina Biancarosa, PI)
Alaska Department of Education and Early Development
Budget: \$5,180,000
Funding period: 09/2023 – 09/2028
Effort: 1.35 SM
Role: Statistical and Psychometric Consultant

Simultaneous Detection of Compromised Items and Examinees with Item Preknowledge Using Both Response Accuracy and Response Time Data (Dr. Cengiz Zopluoglu, PI)
Duolingo, Inc.
Budget: \$112,623
Funding period: 03/2024 – 03/2025
Effort: 30% AY, 2 SM
Role: PI

Rediscovering the Continuous Response Model: An Alternative Modeling Approach for Scoring Items in Duolingo English Test (Dr. Cengiz Zopluoglu, PI)
Duolingo, Inc.
Budget: \$94,084
Funding period: 03/2021 – 07/2023
Effort: 20% AY, 3 SM
Role: PI

Pennsylvania Alternate System of Assessment Technology (Gerald Tindal, PI)
University of Pittsburg
Budget: \$215,000
Funding period: 04/15/2020 – 08/31/2020
Effort: 1 SM
Role: Statistical Consultant/Data Analyst

Teacher and Peer Speech in Inclusion Classrooms: Malleable Factors Affecting Language Outcomes for Children with Disabilities (Dr. Daniel S. Messinger, PI)
National Center for Special Education Research, Institute of Education Sciences
Budget: \$1,399,735

Funding period: 07/01/2018 – 06/30/2022
Effort: 7% AY
Role: Statistical Consultant/Data Analyst

Intergroup Dialogue Program (Dr. Laura Kohn-Wood, PI)
Jessie Ball Du Pont Fund
Budget: \$257,288
Funding period: 01/01/2018 – 12/31/2018
Effort: 2% AY; 1 SM
Role: Statistical Consultant/Data Analyst

Exceptional Student Education (ESE) Parent Survey (Dr. Batya Elbaum, PI)
Florida Department of Education
Budget: \$422,195
Funding period: 09/01/2016 – 08/31/2017
Effort: 3.74% AY, 0.5 SM
Role: Statistical Consultant/Data Analyst

Exceptional Student Education (ESE) Measuring Outcomes (Dr. Batya Elbaum, PI)
Florida Department of Education
Budget: \$142,175
Funding period: 07/01/2016 – 06/30/2017
Effort: 0.5 SM
Role: Statistical Consultant/Data Analyst

Culturally Informed Family Based Treatment of Adolescents (Dr. Dan Santisteban, PI)
National Institute on Drug Abuse
Budget: \$613,352
Funding period: Financial Year 2014 and 2015
Effort: 33.5 % AY
Role: Statistical Consultant/Data Analyst

Modeling the Dynamics of Early Communication (Dr. Daniel Messinger, PI)
National Institute of General Med. Sciences
Budget: \$2,078,308
Funding period: Financial Year 2014
Effort: 1.11 % AY
Role: Statistical Consultant/Data Analyst

Unfunded Grants

TutorMpower: a human+intelligent tutor for K-5 math learning and connection
Department of Education 2024 Small Business Innovation Research (SBIR), Phase 1A
Budget: \$33,451 (subaward to UO)
Funding period: 09/2024 – 4/2025
Effort: 15% AY
Role: Consultant/Data Analyst

Developing Robust and Fair Automated Scoring Technology for Constructed
Mathematics Responses in Educational Assessment by Leveraging Recent Advancements
in Natural Language Processing
Statistical and Research Methodology in Education, Institute of Education Sciences
Budget: \$846,936
Funding period: 09/2024 – 9/2027
Effort: 30% AY, 3 SM
Role: PI

Innovation Diversity Equity and Accessibility LDRC
2022 Learning Engineering Tools, The Learning Agency
Budget: \$2,030,090
Funding period: 07/2023 – 6/2028
Effort: 15% AY
Role: Co-PI

WriteRightNow: An Intelligent Teacher Assistant to Automatically Assess English-
language Writing skills for Low-performing students, English Learners, and Students
with Disabilities
2022 Learning Engineering Tools, The Learning Agency
Budget: \$99,642
Funding period: 08/2023 – 7/2024
Effort: 2.25 SM
Role: PI

Simultaneous Detection of Compromised Items and Examinees with Item Preknowledge
Using Both Response Accuracy and Response Time Data (Dr. Cengiz Zopluoglu, PI)
Statistical and Research Methodology in Education, Institute of Education Sciences
Budget: \$294,870
Funding period: 07/2022 – 06/2024
Effort: 20% AY, 3 SM
Role: PI

Detecting Examinees with Item Preknowledge in Large-Scale Testing Using the Extreme
Gradient Boosting (XGBoost) Algorithm Trained by Simulated Dataset (Dr. Cengiz
Zopluoglu, PI)
National Academy of Education/Spencer Postdoctoral Fellowship

Budget: \$70,000
Funding period: 2018-2019 Academic Year
Role: PI

A Finite Mixture Item Response Model for Continuous Measurement Outcomes (Dr. Cengiz Zopluoglu, PI)

Innovations in Applied Public Health Research, Center for Disease Control and Prevention

Budget: \$141,152

Funding period: 02/01/2016 – 07/31/2017

Effort: 25% AY, 1 SM

Role: PI

A Finite Mixture Item Response Model for Continuous Measurement Outcomes (Dr. Cengiz Zopluoglu, PI)

Statistical and Research Methodology in Education, Institute of Education Sciences

Budget: \$197,047

Funding period: 09/01/2015 – 02/28/2017

Effort: 25% AY, 1 SM

Role: PI

Detecting Unusual Answer Similarity Using Artificial Neural Networks (Dr. Cengiz Zopluoglu, PI)

National Academy of Education/Spencer Postdoctoral Fellowship

Budget: \$70,000

Funding period: 2015-2016 Academic Year

Role: PI

The Impact of Missing Data on the Item Parameter Estimation for the Continuous Response Model (Dr. Cengiz Zopluoglu, PI)

Statistical and Research Methodology in Education, Institute of Education Sciences

Budget: \$100,250

Funding period: 09/2014 – 06/2015

Effort: 25% AY, 1SM

Role: PI

E. Book Chapters

1. Zopluoglu, C. (2017). Similarity, answer copying, and aberrance: Understanding the status quo. In G.J. Cizek & J.A. Wollack, *Handbook of Detecting Cheating on Tests*. Taylor & Francis.

F. Technical Reports

7. Durán, L., Zegers, M., Siebert, J., Zopluoglu, C., Murphy, H., Bell, P., Pei, F., Gorno-Tempini, M.L. (2024). *Multitudes Universal Screener Technical Manual, 1st edition*. San Francisco, CA: Dyslexia Center, University of California San Francisco.
6. Zopluoglu, C. (2023). *Automated Essay Scoring: Exploring the utility and potential for large language models for the WriteRightNow platform*. Eugene, OR: Behavioral Research and Teaching, University of Oregon.
5. Zopluoglu, C. (2023). *NAEP Automated scoring of math items: Challenge Accepted*. Eugene, OR: University of Oregon.
4. Zopluoglu, C. (2021). *Forecasting recidivism: Mission impossible*. Eugene, OR: University of Oregon
3. Zopluoglu, C. (2015). *2015 GER Assessment: Measuring quantitative reasoning and scientific reasoning proficiency for the 2015 senior sample at the University of Miami*. Coral Gables: University of Miami.
2. Zopluoglu, C. (2014). *2014 GER Assessment: Measuring quantitative reasoning and scientific reasoning proficiency for the 2014 senior sample at the University of Miami*. Coral Gables: University of Miami.
1. Zopluoglu, C. (2014). *2013 GER Assessment: Measuring information literacy, quantitative reasoning, and scientific reasoning proficiency for the 2013 senior sample at the University of Miami*. Coral Gables: University of Miami.

INSTRUCTIONAL AND ADVISING ACTIVITIES

A. List of Courses Taught

University of Oregon (Instructor)

- EDUC 614 Educational Statistics (Winter 2021, Winter 2022, Total Enrollment = 69)
- EDUC 642 Multiple Regression in Educational Research (Fall 2020, Fall 2021, Fall 2022, Total Enrollment = 93)
- EDLD 640 Educational Data Science Capstone (Winter 2023, Winter 2024, Total Enrollment = 24)
- EDLD 652 Data Visualization for Educational Data Science (Winter 2023, Winter 2024, Total Enrollment = 32)
- EDLD 653 Function Programming for Educational Data Science (Spring 2023, Spring 2024, Total Enrollment = 30)
- EDLD 654 Machine Learning for Educational Data Science (Fall 2021, Fall 2022, Fall 2023, Fall 2024, Total Enrollment = 55)
- SPED 607 Research Seminar on Rasch Scaling, co-taught by Gina Biancarosa (Fall 2024, Total Enrollment = 5)

University of Miami (Instructor)

- EPS 700 Quantitative Methods I (Fall 2019, Total Enrollment = 15)
- EPS 702 Quantitative Methods II (Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Total Enrollment = 120)
- EPS 704 Computer Applications in Educational and Behavioral Science (Summer 2015, Summer 2016, Summer 2017, Summer 2018, Summer 2019, Total Enrollment = 34)
- EPS 705 Measurement and Psychometric Theory (Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Total Enrollment = 73)
- EPS 706 Categorical Data Analysis (Spring 2016, Total Enrollment = 17)
- EPS 707 Item Response Theory (Spring 2014, Spring 2017, Spring 2018, Spring 2019, Total Enrollment = 38)

University of Minnesota (Teaching Assistant)

EPS 8282 Statistical Analysis of Longitudinal Data

EPS 8268 Hierarchical Linear Modeling in Educational Research

EPS 8261 Statistical Methods I: Probability & Inference

EPS 5261 Introductory Statistical Methods (Online Class)

EPS 3261 Basic and Applied Statistics (Online Class)

B. List of Service on Graduate Student Committees

University of Oregon

24. Small, Jason, 2025, Committee Member. In progress.
22. Wheatley, Rikki, 2025, Committee Member. In progress.
20. Alhmodi, Lemya, 2025, Committee Member. In progress.
20. Le, Trinh, Doctoral Dissertation, 2024, Committee Member. Narrative Language Production: Examining How Young Spanish-English Learners Use the English Language.
19. Klaas, M., Doctoral Dissertation, 2024, Committee Member. The Relationship of Early Childhood Education Access, Quality, and Neighborhoods on Children Developmental Outcomes in Indonesia.
18. Cabrera, M.C., Doctoral Dissertation, 2024, Committee Member. Thermal Comfort and Indoor Air Quality in Low Socioeconomic Status Classrooms
17. Cochrane, C., Doctoral Dissertation, 2023, Committee Member. Effect of Race Matching on Student's Sense of Belonging and Academic Achievement.
15. Zhang, C., Doctoral Dissertation, 2023, Committee Member. Teacher Characteristics, Teacher-Student Relationship, and Student Academic Outcomes in Chinese Junior High Schools.
14. Terral, H., Doctoral Dissertation, 2022, Committee Member. School Wellness and Discipline in Oregon High Schools.
13. Lin, F.Y., Doctoral Dissertation, 2022, Committee Member. Linking Early Intervention Service Delivery Approaches to Young Children's Social-Emotional Development in Taiwan.

12. Harman, M., Doctoral Dissertation, 2021, Committee Member. School-level Matthew Effects in Reading: An Analysis of Within-Year Benchmark Data.

University of Miami

11. Kasli, M., Doctoral Dissertation, 2021, Chair. A Deterministic Gated Lognormal Response Time Model to Identify Examinees with Item Preknowledge.

10. Huynh, K.D., Doctoral Dissertation, 2020, Committee Member. Responding to Heterosexism and Racism: The Effects on Trauma and Well-Being for LGB People of Color.

9. Thomas, E.S., Doctoral Dissertation, 2019, Committee Member. Externalizing Problems and Hispanic/Latinx Adolescents: A Bioecological Perspective.

8. Buskard, A.N.L., Doctoral Dissertation, 2019, Committee Member. Relative Efficacy, Enjoyment, and Adherence of Four Common Progression Models in Strength Training for Older Adults.

7. Medina, E.A., Doctoral Dissertation, 2019, Committee Member. The Effect of Cognitively Guided Instruction (CGI) on the Use of Representational Modeling by First and Second Grade English Learners (ELs) and Their English Proficient (EPs) Peers during Individualized Assessments of Arithmetic Word Problem Solving.

6. McAuliffe, W.H.B, Doctoral Dissertation, 2019, Committee Member. Psychometric Problems with the Self-Report Altruism Scale: Can Studies of Trait Altruism be Trusted.

5. Morris, C.T., Doctoral Dissertation, 2018, Committee Member. Parent-Teacher Agreement on Ratings of Kindergarden Children's Problem Behavior: At the Intersection of Disability, Gender, and Race.

4. Celimli, S., Doctoral Dissertation, 2017, Committee Member. A Comparison of Geomin versus Target Rotation Criteria in Exploratory Factor Analysis with Correlated Factors and Large and Complex Pattern Matrices.

3. Puccinelli, M., Doctoral Dissertation, 2017, Committee Member. Treatment and Moderator Effects in a Randomized Controlled Trial of Culturally Informed and Flexible Family Treatment for Adolescents (CIFTA): An Investigation of the Relationships between Stress, Acculturation, and Parenting Practices.

2. Duff, J., Doctoral Dissertation, 2016, Committee Member. The Development and Initial Validation of a Multidimensional Scale of Perceived Fairness.

1. Krithika, M., Doctoral Dissertation, 2015, Committee Member. Domestic Violence Practitioners' Use of Research Evidence Attitudes and Organizational Social Context.

C. List of Advisees

18	Murat Kasli	Ph.D.	2016 - 2021	Primary Advisor
17	Fajer Shamsaldeen	Ph.D.	2019 – 2020	Co-advisor
16	Trenton Crombs	Ph.D.	2019 – 2020	Co-advisor
15	Xuqi Liu	M.A.	2019 – 2020	Primary Advisor
14	Nasser Hassan	M.A.	2019 – 2020	Primary Advisor
13	Joseph Wright	M.A.	2016 – 2019	Primary Advisor
12	Dorothy Sanchez	M.A.	2016 – 2019	Primary Advisor
11	Claudia Perez	M.A.	2016 – 2019	Primary Advisor
10	Melissa Dietrick	M.A.	2016 – 2018	Primary Advisor
9	Adam Clarke	M.A.	2016 – 2018	Primary Advisor
8	Maria Martinez	M.A.	2016 – 2018	Primary Advisor
7	Suat Babayigit	M.A.	2015 – 2018	Primary Advisor
6	Richard Munoz	M.A.	2015 – 2017	Primary Advisor
5	Jazzerai Yarborough	M.A.	2014 – 2017	Primary Advisor
4	Katherine Zambrana	M.A.	2014 – 2016	Primary Advisor
3	Violeta Rodriguez	M.A.	2013 – 2015	Primary advisor
2	Heath Gregg	M.A.	2013 – 2015	Primary Advisor
1	Monica Morell	M.A.	2013 – 2015	Primary advisor

SERVICE ACTIVITIES

A. Department/Program Service

2023 – Present	Member, Senate Committee on Courses, University of Oregon
2023 – Present	Member, CNNTF Personnel Committee, College of Education, University of Oregon
2023 – 2024	Proxy Faculty Member, School of Computer and Data Science
2021 – 2024	Member, AERA Educational Statistician SIG
2022 – 2023	Member, UO Scholarship Committee, College of Education, University of Oregon
2021 – 2023	Chair, NCME Alicia Cascallar Award Committee

2020 – 2023	Member, NCME Alicia Cascallar Award Committee
2021 – 2022	Member, EDUC Quantitative Task Force, College of Education, University of Oregon
2020 – 2022	Member, Curriculum Committee, College of Education, University of Oregon
2018 – 2021	Member, Conference Organizing Committee, Conference on Test Security
2018 – 2020	Director, Doctoral Program, Research, Measurement, and Evaluation (RME), School of Education and Human Development, University of Miami
2014 – 2020	Director, Master’s Program, Research, Measurement, and Evaluation (RME), School of Education and Human Development, University of Miami
2013 – 2020	Statistical Consultant, STATS-U, Community & Educational Well-Being Research Center, School of Education and Human Development, University of Miami
2018 – 2019	Chair, Conference Organizing Committee, Conference on Test Security 2019
2018 - 2019	Search Committee Member for Two Clinical Faculty position in Higher Education program, University of Miami
2018 - 2019	Search Committee Member for Tenure Track Assistant Professor position in Higher Education program, University of Miami
2017 - 2018	Search Committee Member for Open-Rank Faculty Position in Research, Measurement, and Evaluation program, University of Miami
2016 - 2017	Search Committee Member for Open-Rank Faculty Position in Research, Measurement, and Evaluation program, University of Miami
2014 – 2017	School Council Representative for the Department of Educational and Psychological Studies, School of Education and Human Development, University of Miami

B. Editorial Responsibilities

- Statistical Consulting Editorial Board Member
Journal of Personality Assessment, 08/2016 – 08/2018
- Ad Hoc Reviewer (2013-present), total = 75
Applied Psychological Measurement (k=1)
Journal of Educational and Behavioral Statistics (k=5)
Journal of Educational Measurement (k=8)
Journal of Applied Measurement (k=1)
Educational Measurement: Issues and Practices (k=3)
Educational and Psychological Measurement (k=7)
International Journal of Testing (k=1)
Psychological Methods (k=1)
Multivariate Behavioral Research (k=1)
Educational Assessment (k=2)
Educational Researchers (k=2)
Eurasia Journal of Mathematics, Science, and Technology Education (k=1)
Measurement in Physical Education and Exercise Science (k=2)
International Journal of Assessment Tools in Education (k=1)
International Journal of Intercultural Relations (k=1)
Journal of Community Psychology (k=1)
Journal of Modern Applied Statistical Methods (k=2)
Journal of Personality Assessment (k=3)
Reading and Writing: An Interdisciplinary Journal (k=1)
Annual Meeting of National Council on Measurement in Education – 2017 (k=6)
Annual Meeting of National Council on Measurement in Education – 2019 (k=8)
Annual Meeting of National Council on Measurement in Education – 2021, Discussant (k=4)
Annual Meeting of Florida Educational Research Association – 2016 (k=3)
American Educational Research Association – Educational Statistician SIG – 2022 (k = 2)
American Educational Research Association – Educational Statistician SIG – 2023 (k = 2)
American Educational Research Association – Educational Statistician SIG – 2024 (k = 3)
American Educational Research Association – Division D – 2024 (k = 3)

AWARDS AND PROFESSIONAL ACTIVITIES:

A. Awards and Honors

- 2023 National Center for Education Statistics, Mathematics Automated Scoring Challenge for NAEP, Runner-up Prize
- 2023 Top Cited Article in *Educational Measurement: Issues and Practice*, among work published in an issue between Jan 1, 2021 and Dec 15, 2022.
- 2021 National Institute of Justice, Recidivism Forecasting Challenge, 3rd place in Large Team Category
- 2017 Top 5 Most Cited Papers in *Journal of School Psychology* 2014-2016
- 2013 Graduate Student Research Award, University of Minnesota
- 2013 Graduate Student Travel Award for AERA, University of Minnesota
- 2011 Graduate Student Travel Award for AERA, University of Minnesota
- 2007 – 2013 Fellowship for Graduate Education in the U.S., Ministry of National Education, Turkey

B. Professional Organizations and Activities

- 2013 – Present Member, National Council on Measurement in Education
- 2010 – Present Member, American Educational Research Association