Zopluoglu

CURRICULUM VITAE Cengiz Zopluoglu, Ph.D. **Associate Professor**

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Department of Special Education College of Education University of Oregon cengiz@uoregon.edu https://cengiz.me/

4/29/2025

EDUCATION

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

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

2005 B.A. in Elementary School Mathematics Teaching, Abant Izzet Baysal

University, Bolu, Turkey

EMPLOYMENT

2020 – Present	Associate Professor College of Education, University of Oregon
2013 – 2020	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
Summer 2012	Psychometrics Research Intern, ACT, Inc., Iowa
2005 - 2006	Mathematics Teacher, Gazipasa Elementary School, Bolu, Turkiye

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PUBLICATIONS

An asterisk (*) signifies a student co-author.

A. Refereed Journal Articles

- 40. Durán, L., Zegers, M., **Zopluoglu, C**., *Siebert, J.M., Pratt, A., Pei, F., & Gorno-Tempini, M.L. (accepted, in press). Innovations in Conceptual Scoring of a Bilingual Expressive Vocabulary Universal Screening Measure. *American Journal of Speech-Language Pathology*.
- 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

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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.

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 *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/met00000034
- 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

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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., Monaghen, 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**., Monaghen, B., & Van Norman, E.R. (2013). Curriculumbased 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., & Monaghen, 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

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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. 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.

C. Technical Reports (Not peer-reviewed)

- 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*, *1*st *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. Submitted to the National Center for Education Statistics.
- 4. Zopluoglu, C. (2021). Forecasting recidivism: Mission impossible. Eugene, OR: University of Oregon. Submitted to the National Institute of Justice.

 https://www.ojp.gov/library/publications/forecasting-recidivism-mission-impossible
- 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.

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WORKS IN PROGRESS

Articles

Zopluoglu, C. (accepted with minor revisions, revisions submitted on 2/11/25). Simultaneous detection of compromised items and examinees with item preknowledge in online assessments using response time data. *Journal of Educational Measurement*.

Book Chapter

Kasli, M., Rubio, C., **Zopluoglu,** C. (*in press, final revisions were sent to the publisher on 12/14/24*). Garbage in, Garbage out! A commentary on bias in standardized assessments. In S. Ahn and A. Mann (Eds.), Bias and beyond: Rethinking data practices and inspiring collective dialogue.

PRESENTATIONS

- * These are all peer reviewed 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 prekenowledge using response time data. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA.

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19. Man, K., Harring, 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.
 - ****** Above represents new work since last promotion in 2019 *******
- 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, subscores, 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.

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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.

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GRANTS

AY = Academic Year SM = Summer Months

External Funding

1. 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

2. 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

3. 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

4. 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

5. 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

6. 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

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7. Exceptional student education (ESE) parent survey (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

8. 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

9. Modeling the dynamics of early communication (Dr. Daniel Messinger, PI)

National Institute of General Medical Sciences

Budget: \$2,078,308

Funding period: Financial Year 2014

Effort: 1.11 % AY

Role: Statistical Consultant/Data Analyst

Grants submitted with pending status

1. Developing robust and fair automated scoring technology for constructed mathematics responses in educational assessment by leveraging recent advancements in Natural Language Processing (PI: Cengiz Zopluoglu)

Statistical and Research Methodology in Education, Institute of Education Sciences

Budget: \$855,340

Funding period: 9/2025 - 8/2028

Effort: 30% AY, 3 SM

Role: PI

2. Development of an observational coding system for measuring clinician humility in psychotherapy with diverse youth (PI: Alayna Park)

National Institutes of Health, Division of Minority and Health Disparities

Budget: \$186,000 (subaward to UO) Funding period: 12/2025 – 10/2027

Effort: 15% AY (Year 2)

Role: Co-I

3. Project Measure (PI: Lillian Duran)

U.S. Department of Education, Office of Special Education Programs

Budget: \$2,500,000

Funding period: 9/2025 - 8/2030

Effort: 5% AY (Year 1, Year 4-5), 15% AY (Year 2-3)

Role: Key Personnel

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4. Impact of vertically scaling oral reading fluency on screening for dyslexia risk

(PI: Patrick Kennedy)

National Institutes of Health, Division of Child Health and Human Development

Budget: \$275,000

Funding period: 1/2026 – 12/2027

Effort: 15% AY Role: Key Personnel

Grants submitted but not funded

1. 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

2. Innovation, diversity, equity and accessibility, LDRC (PI: Lillian Duran)

National Institutes of Health, Division of Child Health and Human Development

Budget: \$1,851,211

Funding period: 07/2023 – 6/2028

Effort: 8% AY Role: Co-I

3. WriteRightNow: An intelligent teacher assistant to automatically assess English-language writing skills for low performing students. English Learners, and students with

writing skills for low-performing students, English-Learners, and students with

disabilities (PI: Cengiz Zopluoglu)

2022 Learning Engineering Tools, The Learning Agency

Budget: \$99,642

Funding period: 08/2023 - 7/2024

Effort: 2.25 SM

Role: PI

4. 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

5. Detecting examinees with item preknowledge in large-scale testing using the extreme gradient boosting 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

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6. 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

7. 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

8. 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

9. 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

Consulting Contracts

1. Multitudes: UCSF Dyslexia Center Early Screening and Intervention Pilot Program (Dr.

Maria L. G. Tempini, PI)

University of California – San Francisco Dyslexia Center

Budget: \$10,000,000

Funding period: 03/22 - 10/25 Effort: 8-10 hours per month

Role: Statistical and Psychometric Consultant

2. Virginia alternate assessment program (Dr. Gerald Tindal, PI)

Virginia Department of Education

Budget: \$1,366,327

Funding period: 09/23 - 8/26Effort: ~3 hours per month

Role: Statistical and Psychometric Consultant

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3. Pennsylvania alternate system of assessment technology (Dr. Gerald Tindal, PI)

University of Pittsburgh Budget: \$215,000

Funding period: 04/15/2020 – 08/31/2020

Effort: 1 SM

Role: Statistical Consultant/Data Analyst

TEACHING

Graduate Courses

University of Oregon, Eugene, Oregon (Instructor)

Course Number	Course Name	Term	Enrollment
2024-2025	Two course buyouts from an external grant, one course release du	e to grant a	ectivity
EDLD 653	Function Programming for Educational Data Science	Spr25	10
EDLD 654	Machine Learning for Educational Data Science	Fall24	12
SPED 607	Seminar: Rasch Analysis (1 credit)	Fall24	5
2023-2024	One course release due to grant activity		
EDLD 653	Function Programming for Educational Data Science	Spr24	13
EDLD 652	Data Visualization for Educational Data Science	Win24	14
EDLD 640	Educational Data Science Capstone Project	Win24	11
EDLD 654	Machine Learning for Educational Data Science	Fall23	17
2022-2023	Taught full load without any course release despite grant activity departure of an instructor	due to unex	pected
EDLD 653	Function Programming for Educational Data Science	Spr23	18
EDLD 652	Data Visualization for Educational Data Science	Win23	19
EDLD 640	Educational Data Science Capstone Project	Win23	12
EDLD 654	Machine Learning for Educational Data Science	Fall22	14
EDUC 642	Multiple Regression in Educational Research	Fall22	21
2021-2022	One course buyout from an external grant, one course release due	to grant ac	rtivity
EDUC 614	Educational Statistics	Win22	36
EDLD 654	Machine Learning for Educational Data Science	Fall21	15
EDUC 642	Multiple Regression in Educational Research	Fall21	33
2020-2021	One course buyout from an external grant, one course release from	m startup po	ickage
EDUC 614	Educational Statistics	Win21	32
EDUC 642	Multiple Regression in Educational Research	Fall20	39

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University of Miami, Coral Gables, Florida (Instructor)

EPS 705 Measu	tative Methods I rement and Psychometric Theory	Fall19	15
EPS 705 Measu			15
	rement and Psychometric Theory		13
	•	Fall19	14
2018-2019			
EPS 704 Compt	nter Applications in Educational Science	Sum19	5
	esponse Theory	Spr19	10
EPS 705 Measu	rement and Psychometric Theory	Fall18	17
2017-2018			
	iter Applications in Educational Science	Sum18	13
<u>-</u>	esponse Theory	Spr18	8
	tative Methods II	Spr18	20
EPS 702 Quanti	tative Methods II	Fall17	8
EPS 705 Measu	rement and Psychometric Theory	Fall17	10
2016-2017	·		
EPS 704 Compt	iter Applications in Educational Science	Sum17	9
<u>-</u>	esponse Theory	Spr17	15
EPS 702 Quanti	tative Methods II	Spr17	12
EPS 702 Quanti	tative Methods II	Fall16	11
EPS 705 Measu	rement and Psychometric Theory	Fall16	11
2015-2016	•		
EPS 704 Compt	iter Applications in Educational Science	Sum16	10
EPS 706 Catego	orical Data Analysis	Spr16	17
EPS 702 Quanti	tative Methods II	Spr16	11
EPS 702 Quanti	tative Methods II	Fall15	15
EPS 705 Measu	rement and Psychometric Theory	Fall15	6
2014-2015			
EPS 704 Compt	iter Applications in Educational Science	Sum15	7
EPS 701 Quanti	tative Methods II	Spr15	24
EPS 702 Quanti	tative Methods II	Fall14	19
EPS 705 Measu	rement and Psychometric Theory	Fall14	8
2013-2014	·		
EPS 707 Item R	esponse Theory	Spr14	5
	rement and Psychometric Theory	Fall13	7

University of Minnesota, Minneapolis, MN (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)

Doctoral Dissertations

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2021 completion Murat Kasli (University of Miami), "A Deterministic Gated Lognormal Response Time Model to Identify Examinees with Item Preknowledge" Member 2025 - Present Cruz Godar (University of Oregon) Tony Daza (University of Oregon) 2025 - Present Rikki Wheatley (University of Oregon) 2025 - Present 2024 completion Jason Small (University of Oregon), "The cost and cost-effectiveness of training school-based personnel in motivational interviewing" 2024 Lemya Alhmoudi (University of Oregon), "Examining implementation completion fidelity of shared book reading training by early childhood special education teachers in the United Arab Emirates" 2024 completion Maria C. Cabrera (University of Oregon), "Thermal Comfort and Indoor Air Quality in Low Socioeconomic Status Classrooms" Trinh Le (University of Oregon), "Narrative Language Production: 2024 completion Examining How Young Spanish-English Learners Use the English Language" 2024 completion Merly Klaas (University of Oregon), "The Relationship of Early Childhood Education Access, Quality, and Neighborhoods on Children Developmental Outcomes in Indonesia" Cherice Cochrane (University of Oregon), "Effect of Race Matching on 2023 completion Student's Sense of Belonging and Academic Achievement" Claire Zhang (University of Oregon), "Teacher Characteristics, Teacher-2023 completion Student Relationship, and Student Academic Outcomes in Chinese Junior High Schools" 2022 completion Heather Terral (University of Oregon), "School Wellness and Discipline in Oregon High Schools" Fang-Yu Lin (University of Oregon), "Linking Early Intervention Service 2022 completion Delivery Approaches to Young Children's Social-Emotional Development in Taiwan" 2021 completion Melissa Harman (University of Oregon), "School-level Matthew Effects in Reading: An Analysis of Within-Year Benchmark Data" 2020 completion Kiet D. Huynh (University of Miami), "Responding to Heterosexism and Racism: The Effects on Trauma and Well-Being for LGB People of Color" 2019 completion Evan S. Thomas (University of Miami), "Externalizing Problems and Hispanic/Latinx Adolescents: A Bioecological Perspective" Andrew N.L. Buskard (University of Miami), "Relative Efficacy, 2019 completion Enjoyment, and Adherence of Four Common Progression Models in Strength Training for Older Adults" completion Edwing A. Medina (University of Miami), "The Effect of Cognitively 2019 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"

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2019	completion	W.H.B. McAuliffe (University of Miami), "Psychometric Problems with the Self-Report Altruism Scale: Can Studies of Trait Altruism be
2018	completion	Trusted" Chelsea T. Morris (University of Miami), "Parent-Teacher Agreement on
		Ratings of Kindergarten Children's Problem Behavior: At the Intersection
		of Disability, Gender, and Race"
2017	completion	Seniz Celimli (University of Miami), "A Comparison of Geomin versus
		Target Rotation Criteria in Exploratory Factor Analysis with Correlated
		Factors and Large and Complex Pattern Matrices"
2017	completion	Mark Puccinelli (University of Miami), "Treatment and Moderator Effects
		in a Randomized Controlled Trial of Culturally Informed and Flexible
		Family Treatment for Adolescents (CIFFTA): An Investigation of the
		Relationships between Stress, Acculturation, and Parenting Practices"
2016	completion	Jonathan Duff (University of Miami), "The Development and Initial
	-	Validation of a Multidimensional Scale of Perceived Fairness"
2015	completion	Malhotra Krithika (University of Miami), "Domestic Violence
	-	Practitioners' Use of Research Evidence Attitudes and Organizational
		Social Context"

List of Advisees in the Master's program

* I served as the primary advisor for the following students during their master's studies in the Research, Measurement, and Evaluation program at the University of Miami, and organized and graded their final qualification examinations.

Name	Degree	Period
Xuqi Liu	M.A.	2019 - 2020
Nasser Hassan	M.A.	2019 - 2020
Joseph Wright	M.A.	2016 - 2019
Dorothy Sanchez	M.A.	2016 - 2019
Claudia Perez	M.A.	2016 - 2019
Melissa Dietrick	M.A.	2016 - 2018
Adam Clarke	M.A.	2016 - 2018
Maria Martinez	M.A.	2016 - 2018
Suat Babayigit	M.A.	2015 - 2018
Richard Munoz	M.A.	2015 - 2017
Jazzerai Yarborough	M.A.	2014 - 2017
Katherine Zambrana	M.A.	2014 - 2016
Violeta Rodriguez	M.A.	2013 - 2015
Heath Gregg	M.A.	2013 - 2015
Monica Morell	M.A.	2013 - 2015

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SERVICE

A. Institutional Service

University of Oregon

2023 – Present	Member, Senate Committee on Courses, University of Oregon
2023 - 2024	Proxy Faculty Member, School of Computer and Data Science

College of Education

2024 - 2025	Member, COE Scholarship Committee
2022 - 2024	Member, CNNTF Personnel Committee
2022 - 2023	Member, COE Scholarship Committee
2020 - 2022	Member, COE Curriculum Committee
2022	Developer, R workshop community canvas site
	Developed a community canvas website for an online workshop to
	teach the basics of R programming for all incoming graduate
	students. The website has 12 modules (each module has an
	interactive HTML note, interactive HTML tutorial, a knowledge
	checkpoint quiz, and about 1 hour video tutorial). As of Mar 2025,
	84 students completed at least one module on this website.
2021 - 2022	Member, EDUC Quantitative Task Force
	Participated and contributed to substantive revision of EDUC
	quantitative research sequence in collaboration with Dr. Gina Biancarosa
	and Dr. David Liebowitz.
	EDUC 641 Applied Statistics in Education and Human Services I
	EDUC 643 Applied Statistics in Education and Human Services II
	EDUC 645 Applied Statistics in Education and Human Services III

Department

2023 – present	Reviewer, Doctoral Admissions Applications (SPED)
2023	Peer Review of Teaching, EDLD 663
2022	Peer Review of Teaching, EDLD 650
2021 - 2024	Coordinator, Educational Data Science Specialization (EMPL)
	Taught four of the five courses in the specialization
	Revised the content of two courses:

EDLD 653: Functional Programming EDLD 654: Applied Machine Learning

Processed paperwork for the students upon completion of the five-course sequence

Served as the primary contact person for all questions regarding to specialization

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C.

B. Profession

2017 - 2018

2016 - 2017

2014 - 2017

2021 - 2024 2021 - 2023 2020 - 2021 2019 - 2021 2018 - 2019	Member, AERA Educational Statistician SIG Executive Committee Chair, NCME Alicia Cascallar Award Committee Member, NCME Alicia Cascallar Award Committee Member, Conference Organizing Committee, Conference on Test Security Program Chair, Conference on Test Security
Past Service	
2018 – 2020	Director, Doctoral Program Research, Measurement, and Evaluation (RME)
2014 – 2020	School of Education and Human Development, University of Miami Director, Master's Program
2013 – 2020	Research, Measurement, and Evaluation (RME) School of Education and Human Development, University of Miami Statistical Consultant, STATS-U
2013 – 2020	Community & Educational Well-Being Research Center School of Education and Human Development, University of Miami
2018 - 2019	Member, Search Committee, Two Clinical Line Faculty Hire
2018 - 2019	Higher Education Leadership Ed.D Program, University of Mia Member, Search Committee, Tenure Line Faculty Hire
	Higher Education Leadership Ed.D Program, University of Miami

Member, Search Committee, Tenure Line Faculty Hire

Research, Measurement, and Evaluation Ph.D. Program

Member, Search Committee, Tenure Line Faculty Hire Research, Measurement, and Evaluation Ph.D. Program

School of Education and Human Development, University of Miami

EPS Department Representative, School Council

University of Miami

University of Miami

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D. Editorial Service

Ad Hoc Reviewer (2019-present), total = 46

 $Applied\ Psychological\ Measurement\ (k{=}1)$

Journal of Educational and Behavioral Statistics (k=3)

Journal of Educational Measurement (k=6)

Journal of Applied Measurement (k=1)

Educational Measurement: Issues and Practices (k=3)

Educational and Psychological Measurement (k=4)

Multivariate Behavioral Research (k=1)

Measurement in Physical Education and Exercise Science (k=1)

International Journal of Assessment Tools in Education (k=1)

 $Journal\ of\ Community\ Psychology\ (k=1)$

Journal of Modern Applied Statistical Methods (k=2)

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)

 $American\ Educational\ Research\ Association-Educational\ Statistician\ SIG-2022\ (k=2)$

 $American\ Educational\ Research\ Association-Educational\ Statistician\ SIG-2023\ (k=2)$

American Educational Research Association – Educational Statistician SIG – 2024 (k = 3)

American Educational Research Association – Division D – 2024 (k = 3)

Ad Hoc Reviewer (2013-2019), total = 30

Journal of Educational and Behavioral Statistics (k=2)

Journal of Educational Measurement (k=3)

Educational and Psychological Measurement (k=3)

International Journal of Testing (k=1)

Psychological Methods (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=1)

International Journal of Intercultural Relations (k=1)

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 Florida Educational Research Association -2016 (k=3)

Editorial Board Member, Statistical Consulting

Journal of Personality Assessment, 08/2016 – 08/2018

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PROFESSIONAL AFFILIATIONS

2013 – Present Member, National Council on Measurement in Education 2010 - 2024Member, American Educational Research Association **AWARDS** 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. National Institute of Justice, Recidivism Forecasting Challenge, 3rd place in Large 2021 **Team Category** 2017 Top 5 Most Cited Papers in Journal of School Psychology 2014-2016 2013 Graduate Student Research Award, University of Minnesota Graduate Student Travel Award for AERA, University of Minnesota 2013 2011 Graduate Student Travel Award for AERA, University of Minnesota 2007 - 2013Fellowship for Graduate Education in the U.S., Ministry of National Education, Turkey

PROFESSIONAL DEVELOPMENT

2024	Bayesian Latent Variable Modeling in Educational Research 1-day in-person training workshop by Dr. Ed Merkle NCME Annual Conference
2021	NAEP Process Data Summer Training 4-hour online training workshop by Dr. Martinn Hooper (AIR)
2021	Machine Learning 4-day online training workshop by Dr. Kevin Grimm (Arizona State University)
2021	Data Science 23-week long online course (2-hours a week) by Data Society Organized by Social Data Science Network at the University of Oregon
2020	Bayesian Estimation of IRT Models Using OpenBUGS and Stan 1-day in-person training workshop by Drs. Hong Jiao, Yong Luo, Kaiwen Man, and Dandan Liao, NCME Annual Conference
2020	Analyzing Complex Survey Data 2-day online training workshop by Dr. Laura Stapleton (University of Maryland)
2019	Introduction to Bayesian Statistical Modeling 3-day in-person training workshop by Dr. Roy Levy University of Miami
2018	Computerized Adaptive Testing 1-day in-person training workshop by Drs. David Shin & Yuehmei Chien NCME Annual Conference
2017	Cognitive Diagnosis Modeling 1-day in-person training workshop by Drs. Jimmy de la Torre & Wenchao Ma NCME Annual Conference
2015	Modern Statistical Techniques for Longitudinal Data Analysis 3-day in-person training workshop by Dr. Jeffrey R. Harring University of Miami