CURRICULUM VITAE

Personal Information

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I currently serve as an Assistant Professor in the Operations and Project Management (OPM) Department at the College of Business, Alfaisal University. Previously, from 2019 to 2024, I was a faculty member and the Director of the Center for Statistics and Information (CSI) at Prince Sultan University. Prior to that, from 2017 to 2019, I worked as a Researcher and Evaluation and Assessment Specialist (psychometrician) at the National Centre for Assessment (NCA, ETEC).

My journey in measurement and statistics began with the completion of my Ph.D. at Hacettepe University in Ankara, where I specialized in multidimensional computerized adaptive testing (MCAT), which is considered an unsupervised Machine Learning method. My research focused on artificial intelligence (AI) applications in different fields, such as engineering, health and education. Moreover, I specialize on item-level dimensionality models and their implications for developing a live Computerized Adaptive Testing (CAT) system capable of adaptively assessing students' language abilities. Through this work, I contributed to advancing adaptive testing methodologies and enhancing the precision of assessment.

My academic pursuits have been enriched and diversified through a scholarship from the Higher Council of Education, leading me to a visiting scholar position at the University of Illinois at Urbana-Champaign (UIUC), IL, USA, under the guidance of Prof. Dr. Hua Hua Chang. This experience, coupled with advanced coursework in mathematics and statistics from National Chung Hsing University (NCHU), Taiwan, has broadened my research interests and expertise.

My specific research interests include Artifical Inteligence (AI), Machine Learning and Deep Learning, structural equating modeling (SEM), multilevel modeling, multivariate statistics,

adaptive testing (unidimensional and multidimensional computerized adaptive testing), language testing, multistage adaptive testing, item response theory models (IRT), test equating, DIF (differential item functioning), integrating AI-driven natural language processing (NLP) models. I published some papers and conducted research projects, listed below, related to the aforementioned research areas.

I am an expert in Business Intelligence Analysis and Programs, such as PowerBi, used for data calculation, visualization, and reporting. As a director of the Center for Statistics and Information (CSI), I have developed Dashboards integrated into a database that automates data preparation, data dissemination, and KPIs calculation process for each college and program periodically.

My recent work in deep learning has focused on image classification applications in both medical, engineering and agricultural domains. Notably, I have developed cutting-edge deep learning models for skin and lung cancer detection, including CNN-ViT-based and ConvNeXtV2-based frameworks, which enhance diagnostic accuracy. Additionally, my proficiency in R programming, Python, MPLUS, and SPSS underpins my ability to conduct advanced statistical analyses, enabling me to contribute innovative research and actionable insights to my field.

I am proficient in key deep learning and machine learning frameworks such as TensorFlow, PyTorch, Keras, and Scikit-learn, along with image processing libraries like OpenCV and PIL. These skills allow me to integrate statistical modeling with AI-driven methodologies, addressing complex classification challenges with high precision and efficiency.

Kind Regards,

Education

- **Post Graduate Program in AI & Machine Learning: Business Applications**, McCombs School of Business, The University of Texas at Austin (*Completed [September 2025]*)
- **Ph.D. in Measurement and Evaluation in Education**, Hacettepe University, Ankara, Graduated August 24, 2015.
  - Dissertation: "Examining the Effect of Item Level Dimensionality Models on Multidimensional Computerized Adaptive Testing".
- Undergraduate Degree in Secondary Mathematics Education, Ataturk University.

Professional Experience

- **Assistant Professor Dr., Alfaisal University,** College of Business, Department of Operations and Project Management (August 2024-...)
- **Chairman**, Alfaisal University, University Digital Commitee (UDC) in charge of digital

transformation at University Level (August 2024-...)

- **Associate Prof. Dr**., Promoted to Associate Prof. Dr. by Inter-Universities Council under Higher Council of Education, Turkiye, April, 2021.
- **Assistant Professor Dr.,** College of Humanities, Department of Maths and Sciences (September 2019-July 2024)
- **Director**, Center for Statistics and Information Center (CSI). (September 2019-July 2024)
- **Evaluation and Assessment Specialist**, Department of Research, National Center for Assessment (NCA, ETEC), Riyadh, Saudi Arabia (April 2017- June 2019)
- **Assistant Professor Dr.** and **Chairperson** of the Department of Educational Measurement and Evaluation at Siirt University. (August 2015- April 2017)
- **Visiting Scholar**, University of Illinois at Urbana Champaign (UIUC), USA. Host: Prof. Dr. Hua Hua Chang (July 2014-May 2015).
- **Research Assistant,** Hacettepe University, Department of Measurement and Evaluation in Education (February 2011- August 2015)
- **Attaché of China**, 25th Universiade Winter Olympics 2011, Erzurum/Turkey. In charge of Delegates from China during the Olympics, January 25-February 6, 2011

Software & Statistical Tools

- Proficient in Python, R programming language, PyTorch, TensorFlow, YOLOv9 for deep learning, Keras, OpenCV, Scikit-learn, MPLUS, SPSS, and Power BI for statistical analysis, machine learning, and data visualization.

Teaching Experience

- Predictive Analytics and Data Mining (Machine learning and applications)
- Applied Business Analytics Project
- Business Big Data Intelligence
- Introduction to the Probability and Statistics Theory
- Statistical Analysis (Business Statistics, for College of Business and Administration (CBA) programs)
- Probability Theory and Statistics
- Introduction to the Scientific Research Methodologies.
- Educational Measurement and Evaluation

Publications

Journal Articles

Ozdemir, B., Aslan, E., & Paçal, I. (2026). Attention enhanced InceptionNeXt-based hybrid deep learning model for lung cancer detection. *IEEE Access, 13*, 27050–27069. https://doi.org/10.1109/ACCESS.2025.3539122

Ozdemir, B., Sermet, F., & Paçal, İ. (2025). Attention-enhanced ConvNeXt for accurate, efficient, and interpretable crack detection. Expert Systems with Applications, 296(Part D), 129165. https://doi.org/10.1016/j.eswa.2025.129165

Ozdemir, B., Pacal, I. (2025). A robust deep learning framework for multiclass skin cancer classification. *Scientific Reports,* 15, 4938 https://doi.org/10.1038/s41598-025-89230-7

Ozdemir, B., & Pacal, I. (2025). An innovative deep learning framework for skin cancer detection employing ConvNeXtV2 and focal self-attention mechanisms. *Results in Engineering, 25*, 103692. https://doi.org/10.1016/j.rineng.2024.103692

Pacal, I., **Ozdemir, B**., Zeynalov, J., Gasimov, H., & Pacal, N. (2025). A novel CNN-ViT-based deep learning model for early skin cancer diagnosis. *Biomedical Signal Processing and Control, 104*, 107627. https://doi.org/10.1016/j.bspc.2025.107627

Pacal, I., Kilicarslan, S., **Ozdemir, B**., Deveci, M., & Kadry, S. (2025). Efficient and autonomous detection of olive leaf diseases using AI-enhanced MetaFormer. *Artificial Intelligence Review, 58*, 303. https://doi.org/10.1007/s10462-025-11131-y

Saleem, N., Akbar, A., Irshad, A. U. R., **Ozdemir, B**., & Khan, J. A. (2025). Influence diagnostics in Gamma-Pareto regression model with Cook's distance for standardized and adjusted Pearson, deviance, and likelihood residuals: Simulation and application. *Journal of Mathematics.* https://doi.org/10.1155/jom/3440237

Alsalamah, I. M., Mujlli, G., Alghosen, A., Madani, S., Aboaysha, M., **Ozdemir**, B., Alkanhal, A., Alaida, A., Alsuliman, A., & Alobaid, A. (2024). Development and validation of a three-dimensional laryngoscope for simulation-based intubation training: A pilot study. *Heliyon*. https://doi.org/10.2139/ssrn.4677111

Ambreen, F., **Ozdemir, B.,** & El-Dakhs, D. A. S. (2023). Saudi undergraduate EFL learners' attitudes toward using textism in their academic writing. *Asian-Pacific Journal of Second and Foreign Language Education*, *8*(1), 38. https://doi.org/10.1186/s40862-023-00213-5

Mujlli, G., Al-Ghosen, A., Alrabah, R. *Munshi, F. &* ***Ozdemir, B.*** (2023). Development and validation of Simulation Scenario Quality Instrument (SSQI). *BMC Med Educ* 23, 972 https://doi.org/10.1186/s12909-023-04935-5

Shah, I., Alrabaiah, H., & **Ozdemir, B**. (2023). Using advanced analysis together with fractional order derivative to investigate a smoking tobacco cancer model. *Results in Physics*, *51*, 106700. https://doi.org/10.1016/j.rinp.2023.106700

Alrabaiah, H., Din, R. U., Ansari, K. J., & **Ozdemir, B.** (2023). Stability and numerical analysis via non-standard finite difference scheme of a nonlinear classical and fractional order model. *Results in Physics*, *49*, 106536. https://doi.org/10.1016/j.rinp.2023.106536

Ozdemir, B. & Algamdi, H. (2022). Investigating the Distractors to Explain DIF Effects Across Gender in Large Scale Test with Non-linear Logistic Regression Models. *Frontiers in Education*. *https://doi.org/*10.3389/feduc.2021.748884

Ozdemir, B. & Gelbal, S. (2022). Measuring language ability of students with compensatory multidimensional CAT: A post-hoc simulation study. *Education and Information Technologies. https://doi.org/*10.1007/s10639-021-10853-0

Cakir, O., **Ozdemir, B.,** Hussain, I. &, Akram, M. (2021). Investigating The Effect of Facebook Addiction on Students` Happiness Mediated by Nomophobia Across Countries: Multi-Group MIMIC Approach. *Elementary Education Online, 20* (1), 8027-8047. *https://doi.org/*10.17051/ilkonline.2021.01.827

Ozdemir, B & Alshamrani, A. H. (2020). Examining the Fairness of Language Test Across Gender with IRT-based Differential Item and Test Functioning Methods. *International Journal of Learning, Teaching and Educational Research, 19(6), 27-45., https://doi.org/10.26803/ijlter.19.6.1*

Hussain, I., Cakir, O., & **Ozdemir, B**. (2020). Studying internet addiction profile of University students with latent class analysis. *Education and Information Technologies,* 25 *https://doi.org/10.1007/s10639-020-10203-6*

Mao, X., **Ozdemir, B.,** Wang, Y. & Xin, T. (2018). Investigating The Effect of Exposure-Control Strategies on Item Selection Methods in MCAT. *Journal of Measurement and Evaluation in Education and Psychology.* 9(3) 295-311. *https://doi.org/*10.21031/epod.407521

Ihan-Beyaztas, D. **& Ozdemir, B. (2018).** The Effect of Case-Based Curriculum on Cognitive and Affective Characteristics of Students. *Journal of Education and Training Studies.*6(3). 2324-8068., *https://doi.org/*10.11114/jets.v6i3.3035

Ozdemir, B. & Ilhan-Beyaztas, D. **(2018).** Prospective Teachers' Opinions About the Reasons

Behind Adopted Learning Approaches According To Exam Types. *Mehmet Akif Ersoy University Education Faculty Journal* 46(2) 363 – 385. https://doi.org/10.21764/maeuefd.397553

Ozdemir, B., Cakir, O. & Hussain, I. (2018). Prevalence of Nomophobia among University Students: A Comparative Study of Pakistani and Turkish Undergraduate Students. *EURASIA Journal of Mathematics, Science and Technology Education*. 14(4):1519–1532., *https://doi.org/*10.29333/ejmste/84839

Ozdemir, B. (2017). Equating TIMSS Mathematic Subtests with Nonlinear Equating Methods Using NEAT Design: Circle-Arc Equating Approaches. *International Journal of Progressive Education*. 2017; 13(2); 116-132, ISSN: 1554-5210. 1.

Ozdemir B. & Seef, N. (2017). Examining the factors of self-compassion scale with canonical commonality analyses: Syria sample. *Eurasian Journal of Educational Research* 70 (2017) 19–36. *https://doi.org/10.14689/ejer.2017.70.2*

Hussain, I., Cakir, O., **Ozdemir, B.** & Tahirkheli, S. A. (2017). Getting Closer Being Apart: Living in The Age of Information and Communication Technologies. *New Horizons*. 2017; 11(1); 145-160, ISSN: 1992-4399

Ozdemir, B. & Gelbal, S., (2015). Examining the Effect of Content Balancing on Multidimensional Computerized Adaptive Testing Based on Between-Item Dimensionality Model. *Journal of Measurement and Evaluation in Education and Psychology.* 2015; 6(2); 365-384. https://doi.org/10.21031/epod.03278

Ozdemir, B. (2015). A comparison of IRT-based methods for examining differential item functioning in TIMSS 2011 mathematics subtest. *Procedia - Social and Behavioral Sciences* 74 (2015) 2075 – 2083. *https://doi.org/*10.1016/j.sbspro.2015.02.004

Ozdemir, B. & Gelbal S., (2014). Investigating Factors That Affect Turkish Students' Academic Success with Canonical Commonality Analysis According to PISA 2009 Results. *Education and Science* 2014; 39 (175) 41-57. *https://doi.org/*10.15390/EB.2014.3025

Book Chapter

Ozdemir, B. (2020). Examining the Main And Interaction Effects of Different factors on Students' Performance On Language Test. Chapter 10. *Ed. I. Harun Sahin, EDUCATIONAL SCIENCES Theory, Current Researches and New Trends, IVPE, ISBN:978-9940-46-036-5, Cetinje-Montenegro.*

Ozdemir, B. (2017). Examining Testlet Effects in English Proficiency Test: A Bayesian Testlet Response Theory Approach. Chapter 48. *Ed. I. Koleva and G. Duman. Educational Research and Practice, Sofia, St. Kliment Ohridski Unıversity Press.*

Proceedings

Ozdemir, B. (2016). Comparison of Different Unidimensional-CAT Algorithms Measuring Students' Language Abilities: Post-hoc Simulation Study. *The European Proceedings of Social and Behavioural Sciences*, eISSN: 2357-1330, 2016; 403-416. https://doi.org/10.15405/epsbs.2016.11.42

Ozdemir, B. (2014). Partitioning Variance into Constituents in Regression Models: Commonality Analysis. *Chapter 25. Ed. R.E Millsap, D. M. Bolt, L. A. van der Ark and W-C Wang. Quantitative Psychology Research, NC: Springer.*

Ozdemir, B. & Gelbal S., (2013) "*Determining Relative Importance of Factor Affecting Students Academic Success by Rank-order Scaling Methods*" Proceeding International Conference on New Horizons in Education, INTE 2013, Rome, June 24-27 2013

Workshops & Panels

Ozdemir, B. (2024). Navigating Psychometrics in Medical Exams: A Comprehensive Workshop on Psychometric Analysis and Principles**.** Saudi Commission for Health Specialties (SCFHS), May 09-10, 2024, Riyadh. (*Workshop*)

Ozdemir, B. (2024). Determining the Cut-off Scores of National Exams with Modified Angof Method: **Saudi Psychology Licensure Examination (SPSLE),** Saudi Commission for Health Specialties (SCFHS), January 20-21, 2024, Riyadh. (*Panel Session*)

Ozdemir, B. (2023). Determining the Cut-off Scores of National Exams with Modified Angof Method: **Saudi Clinical Nutrition Licensure Examination (SCNLE),** Saudi Commission for Health Specialties (SCFHS), January 20-21, 2023, Riyadh. (*Panel Session*)

Ozdemir, B. (2020). Online Workshop on How to Prepare Annual Program Report Preparation (APR). *Section B:* Program Statistics and *Session F:* Program Evaluation using Survey Results to calculate KPIs (Center for Statistics and Information (CSI), Prince Sultan University, Riyadh.

Ozdemir, B. (2018). *Introduction to R Programming Language.* National Center for Assessment (NCA), 2018, Riyadh, KSA, February, 2018.

Ozdemir, B. (2018). *Data Management and Statistical Analysis with R .* National Center for Assessment (NCA), 2018, Riyadh, KSA, February, 2018.

Ozdemir, B. (2018). *Data Visualization .* National Center for Assessment (NCA), 2018, Riyadh, KSA, February, 2018.

Ozdemir, B. (2016). *Unidimensional and multidimensional Computerized Adaptive Testing with*

R programming, the 5th National Congress on Measurement and Evaluation in Education and Psychology. EPOD, 2016 Antalya, Turkey, September 1 – 3, 2016.

Conference Presentations

Alkusayer, G., **Ozdemir,** B., Mujili G., Pike, K., & Sabr, Y. (2025). "*Enhancing team competency in complex fetal anomalies through simulation-based clinical rehearsal (SbCR) within the ACTIONS framework* [Poster presentation]". ISUOG World Congress 2025, , *September 14-17, 2025, Cancun, Mexico*.

Mujlli, G., Al-Ghosen, A., Alrabah, R., Munshi, F., & **Ozdemir**, B. (2024, December 1–2). *Validation of Simulation Scenario Quality Instrument (SSQI)* [Oral presentation]. International Healthcare Simulation Conference, King Fahad Medical City, Riyadh, Saudi Arabia.

Ozdemir, B. & Alsughayyer, A. (2024). "*Decision Tree-Based CAT in Clinical Settings: An Evaluation of Performance Metrics ".* The 2024 Computerized Adaptive Testing Summit. IACAT, September 24-27, 2024, Seoul, Korea.

Ozdemir, B. & Alsughayyer, A. (2023). "*Exploring the Feasibility and Effectiveness of using NLP for Generating Valid and Reliable Clinical Skills Assessment Items: An Expert Review Approach".* Psychometric Society, the Annual Meeting of Psychometric Society, IMPS 2023, Washington, DC, July 23th-28th

Ozdemir, B. & Irshad, A. (2023). *"Comparison of Clustering Analysis Methods Based on Simulated Data: Differential Insights and Methodological Advantages"* 17th International Scientific Research Congress, ISRC 2023. August 19-20, 2023, Ankara, Turkey.

Ozdemir, B. & Munshi, F. (2022) "*Implementing CAT to measure Nursing skills of the candidate:A Post-Hoc Simulation Study".* The 2022 Computerized Adaptive Testing Summit. IACAT, September 20-22, 2022, Frankfurt, Germany.

Ozdemir, B. & Alenazi, M. (2022). " *Trends in Applied Statistics and Data Science: Effects of Programming Languages."* 13th International Scientific Research Congress, ISRC, 2021. December 17-18, 2022, Ankara, Turkey.

Ozdemir, B. & Alenazi, M. (2021). *"Investigating the Psychometric Properties of Faculty Satisfaction Survey: Reliability and validity analysis.* 12th International Scientific Research Congress, ISRC, 2021. December 17-18, 2021, Ankara, Turkey.

Ozdemir, B. (2020). *Comparing the performance of different groups across testing methods: Multi-group MIMIC approach.* Psychometric Society, the 85th Annual Meeting of Psychometric Society, IMPS 2020, University of Maryland, College Park, Washington, DC, July 13th-17th 2020.

Ozdemir, B. & Cakir, O. (2019). *Investigating the Internet Addiction Profile of Turkish students with Latent Class analysis.* 28th International Conference of Educational Science, ICES-UEBK, 2019. 25-28 April, Ankara, Turkey.

Ozdemir, B. & Seef, N. (2018). Examining Factorial Structure and Measurement Invariance of Nonverbal Intelligence Test Across Different Sub-groups The 27th Internatıonal Congress On Educatıonal Scıences. 25-28 April, 2018, Antalya, Turkey

Ozdemir, B. & Seef, N. (2018). Investıgating The Compassion Satisfaction And Compassion Fatigue Among Syrian Psychologists. 5th International Conference on Social Sciences & Education Research April 20-22, 2018 Antalya - Turkey

Ozdemir, B. & Gelbal S. (2016). Measuring Language Ability of Students with Compensatory Multidimensional CAT: A Post-Hoc Simulation Study. NCME 2016 Annual Meeting Washington, DC. April 7-11. 2016

Ozdemir, B. & Seef, N. (2016). *Examining the factors of self-compassion scale with canonical commonality analyses: Syria sample.* III rd International Eurasian Educational Research Congress, EJER 2016. Mugla, Turkey. May 31- June 3

Ozdemir, B. & Cakir, O. (2016). *Examining the Effect of Sharing Experience of Elderly People through Personal E-Blogs on Their Life Satisfaction.* III rd International Eurasian Educational Research Congress, EJER 2016. Mugla, Turkey. May 31- June 3

Ozdemir, B. (2015). "*Testlet Effect on Different IRT-Based DIF Methods: Bayesian Testlet Response Theory Approach".* Psychometric Society, the 80th Annual Meeting of Psychometric Society, IMPS 2015, Beijing, China, July 12th-16th 2015

Ozdemir, B. (2015)."*Equating TIMSS Mathematic Subtests with Nonlinear Equating Methods Using NEAT Design: Circle-Arc Equating Approaches".* International Congress on Education for the Future: Issues and Challenges, ICEFIC 2015. *Ankara*, Turkey, May 13th- 15th 2015

Ozdemir, B. (2014)."*Measuring Language Ability of Students with CAT: An Application of Post-Hoc Simulation to English Proficiency Test".* The 2014 Computerized Adaptive Testing Summit. IACAT, Princeton, New Jersey, October 8th- 10th 2014

Ozdemir, B. (2014). "*Examining Testlet Effects in English Proficiency Test: A Bayesian Testlet Response Theory Approach*". Psychometric Society, the 79th Annual Meeting of Psychometric Society, IMPS 2014, Madison Wisconsin, July 20nd-26th 2014

Ozdemir, B. (2014). "*A Comparison of Different Linear And Nonlinear Observed Score Equating Methods Using Random Group Design".* IV. National Congress on Measurement and Statistics in Education and Psychology. EPOD, Ankara, Turkey, June 9th – June 13th 2014

Kart, A., Inal, H. & **Ozdemir, B.** (2014). *The Comparison of Prediction Performance of Multiple*

Regression Analysis with different Artificial Neural Network Models. IV. National Congress on Measurement and Statistics in Education and Psychology. EPOD, Ankara, Turkey, June, 9-12, 2014

Ozdemir, B. (2013) ."*Partitioning Variance into Constituents in Regression Models: Commonality Analysis*" Psychometric Society, the 78th Annual Meeting of Psychometric Society, IMPS 2013, Arnhem, July, 22-26, 2013

Ozdemir, B. & Gelbal S. (2013). "*Determining Relatıve Importance of Factor Affecting Students Academic Success by Rank-order Scaling Methods*" International Conference on New Horizons in Education, INTE 2013, Rome, June, 24-27, 2013

Ozdemir, B. & Yagci E., "*Teachers Opinion on New Mathematics Curriculum and Integers Subject Covered by Program: A Case Study "* II. National Congress on Curriculum And Instruction, Bolu, September, 27-29, 2012.

Certificates and Professional Development

- **AI for Everyone** *(Online Non-Credit Course)*, IBM via Coursera — Verified Certificate [B2WTEXCLZNZC], **July 2024**.
- **Python for Data Science, AI & Development** (Online Non-Credit Course), IBM via Coursera — Verified Certificate, July 12, 2024. Verification URL: https://coursera.org/verify/JYV83EXX9RDZ.
- **Data Analysis with Python** (Online Non-Credit Course), IBM via Coursera — Verified Certificate, August 7, 2024. Verification URL: https://coursera.org/verify/0QXRK7EA1PXH.
- **Basic Image Classification with TensorFlow** (Online Non-Credit Project), Coursera Project Network via Coursera — Project Certificate [JN5MXG867ECN], December 1, 2024. Verification URL: https://coursera.org/verify/JN5MXG867ECN.
- **Validation of Simulation Scenario Quality Instrument (SSQI)** (1st Place Oral Abstract Presentation Award), Riyadh Second Health Cluster — Certificate of Appreciation, December 1–2, 2024. Verification Location: King Fahad Medical City, International Healthcare Simulation Conference.

Research Projects

Current Research Projects for 2022-2025

- ***Item banking for National Medical Exam:*** **Item calibration, and Score reporting based**

on Rasch Model for Saudi Medical Licensure Exams (SMLEs) administered in LOFT (Linear on the Fly Test) format in collaboration with the National Board of Medical Exam (NBME, United State of America)

Research Projects conducted in National Centre for Assessment (NCA-QIYAS), Riyadh

Code	Titles	Researcher
TR177-2017	Examining Differential Functioning at item and Test level of the English Placement Tests (EPT) (Study Data: the EPT 0105 and the EPT 0106)	Burhanettin Özdemir
TR191-2017	Examining the effects of different factors on the EPT and the English Preparatory Program Tests at Imam Abdulrahman Bin Faisal University IAU (Dammam)	Burhanettin Ozdemir
TR199-2017	Examining Differential Distractor Functioning of GAT-ART items with Non-linear Logistic Regression Models (Study Data: GAT-ART 1521)	Burhanettin Özdemir
TR204-2017	Which D-scoring estimation method to use? Revisiting estimation of bootstrapping based D-scoring method	Burhanettin Özdemir
TR208-2017	Investigating the Testlet Structure of Reading Comprehension Items in General Aptitude Test (GAT) with Bayesian MCMC and Bifactor Models	Burhanettin Özdemir
TR223-2018	Examining The Factorial Structure of School Administration Teacher Test with Parametric and Nonparametric Methods	Burhanettin Özdemir
TR230-2018	Examining The Factorial Structure of Student Counselling Teacher Test with Parametric and Nonparametric Methods	Burhanettin Özdemir
TR234-2018	Examining The Factorial Structure of Educational Supervision Teacher Test with Parametric and Nonparametric Methods	Burhanettin Özdemir
TR246-2018	Employing differential distractor functioning methods to explain DIF effect with divide-by-total and divide-by-distractors approaches	Burhanettin Özdemir
TR247-2018	Investigating the Effect of High School Curriculum Type in GAT-Science Across School Types with Multilevel Multi-Group SEM Methods	Burhanettin Özdemir
TR…-2019	Comparing the performance of different groups (Saudi vs Non-Saudi) across different test administration methods (P&P vs CBT): Multi-group MIMIC approach	Burhanettin Özdemir
TR…-2019	Investigating aberrant behavior of students with IRT based Response times joint model with accuracy and speed: Bayesian MCMC approach	Burhanettin Özdemir

- The Effect of Case-Based Curriculum on Cognitive and Affective Characteristics of Students in the context of Educational Science. (Ilhan-Beyaztas, D. **& Ozdemir, B. 2018).**

03.04.2017-03.04.2018

Attended Academic Programs

- *"Program of Developing Language Abilities of Academicians",* Organized by the Council of Higher Education, Malta June 13-September 2, 2011.
- *Programing of Academic Exchange, (PAX),* Sponsored by National Chung Hsing University 2008-2009 *Taichung/ Taiwan,*
- *"American Culture and Languages Program",* Sponsored by the English Language Fellow Program of the U.S. Department of State, November 1, 2004- June 30, 2005

Languages

English: Advanced (received Advanced Certificate from Institute of English Language Studies, Malta, 2011)
Chinese: Intermediate (took 128 hours Chinese course offered by Language Center of National Chung Hsing University, Taiwan, 2008-2009)