

# BURAK AYDIN, PH.D.

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## EDUCATION

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- Ph.D.** University of Florida, Research and Evaluation Methodology *August 2014*  
Dissertation: “Statistical Power in Cluster Randomized Trials”  
Advisor: Walter L. Leite
- Ph.D. Minor** University of Florida, Applied Statistics *August 2013*
- M.S.** University of Florida, Research and Evaluation Methodology  
Thesis: “Comparison of Latent Growth Models with Different Time Coding Strategies”  
Advisor: Walter L. Leite *August 2010*
- B.S.** Kocaeli Üniversitesi, Math Education *June 2006*

## PUBLICATIONS

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### First Author

- Aydın Burak**, Algina, James. (2021). Best Linear Unbiased Prediction of Latent Means in Three-level Data. *The Journal of Experimental Education*, 90:2, 452-468, DOI: [10.1080/00220973.2021.1873088](https://doi.org/10.1080/00220973.2021.1873088)
- Aydın Burak**, Algina James, Leite Walter (2019). Comparison of model- and design-based approaches to detect the treatment effect and covariate by treatment interactions in three-level models for multisite cluster-randomized trials. *Behavior Research Methods*, 51(1), 243-257., Doi: 10.3758/s13428-018-1080-1
- Aydın Burak**, Kaplan Mehmet, Atılğan Hakan, Gürel Sungur (2019). A Preliminary Study to Evaluate the Reproducibility of Factor Analysis Results: The Case of Educational Research Journals in Turkey. *Eğitimde ve Psikolojide Ölçme ve Değerlendirme Dergisi*, 10(1), 1-11., Doi: 10.21031/epod.482393
- Aydın Burak**, Walter Leite, Algina James (2016). The Effects of Including Observed Means or Latent Means as Covariates in Multilevel Models for Cluster Randomized Trials. *Educational and Psychological Measurement*, 76(5), 803-823., Doi: 10.1177/0013164415618705
- Aydın Burak** (2016). Multilevel Models: The Two-level Model with Continuous Variables and an Empirical Example Using R. *Ege Eğitim Dergisi*, 17(2), 567-596.
- Aydın Burak**, Leite Walter, Algina James (2014). The Consequences of Ignoring Variability in Measurement Occasions Within Data Collection Waves in Latent Growth Models. *Multivariate Behavioral Research*, 49(2), 149-160., Doi: 10.1080/00273171.2014.887901

### Data Simulation

- Leite Walter, **Aydın Burak**, Cetin-Berber Duygu (2021). Imputation of Missing Covariate Data Prior to Propensity Score Analysis: A Tutorial and Evaluation of the Robustness of Practical Approaches. *Evaluation Review*. <https://doi.org/10.1177/0193841X211020245>
- Leite Walter, **Aydın Burak**, Gürel Sungur (2018). A Comparison of Propensity Score Weighting Methods for Evaluating the Effects of Programs with Multiple Versions. *The Journal of Experimental Education*, 1-14., Doi: 10.1080/00220973.2017.1409179

## Data Analyst

- Cevriye Ergül, Burcu Kılıç-Tülü, **Aydın Burak**, Meral Ç. Ökcün-Akçamuş, Gözde Akoğlu & Zeynep Bahap-Kudret (2022) Does the Matthew effect have an impact on the reading skills of Turkish-speaking children?, *Education 3-13*, DOI: [10.1080/03004279.2022.2049336](https://doi.org/10.1080/03004279.2022.2049336)
- Rakap Salih, Balıkcı Şerife, Kalkan Sinan, **Aydın Burak** (2020) Knowledge of Autism Spectrum Disorder among the General Population in Turkey: Implications for Public Training and Education, *International Journal of Disability, Development and Education*, DOI: [10.1080/1034912X.2020.1719047](https://doi.org/10.1080/1034912X.2020.1719047)
- Daunic Ann, Smith Stephen, **Aydın Burak**, Barber Brian (2019). Lowering Risk for Significant Behavior Problems Through Cognitive-Behavioral Intervention: Effects of the Tools for Getting Along Curriculum 2 Years Following Implementation. *The Journal of Primary Prevention*, 1-20., Doi: [10.1007/s10935-019-00554-3](https://doi.org/10.1007/s10935-019-00554-3)
- Gök Enes, **Aydın Burak**, Weidman John C (2019). The impact of higher education on unemployed Turkish people's attitudes toward gender: A multilevel analysis. *International Journal of Educational Development*, 66(1), 155-163., Doi: [10.1016/j.ijedudev.2018.10.004](https://doi.org/10.1016/j.ijedudev.2018.10.004)
- Rakap Salih, Balıkcı Şerife, Kalkan Sinan, **Aydın Burak** (2018). Preschool Teachers' Use of Strategies to Support Social-Emotional Competence in Young Children. *International Journal of Early Childhood Special Education*, 10(1), 11-25., Doi: [10.20489/intjecse.454103](https://doi.org/10.20489/intjecse.454103)
- Gök Enes, **Aydın Burak** (2017). A Pilot Study for the Development of Higher Education Student Mentoring Scale. *Kırıkkale Üniversitesi Sosyal Bilimler Dergisi*, 7(1), 107-120.
- Rakap Salih, Parlak Rakap Asiye, **Aydın Burak** (2016). Investigation and comparison of Turkish and American preschool teacher candidates' attitudes towards inclusion of young children with disabilities. *International Journal of Inclusive Education*, 20(11), 1223-1237., Doi: [10.1080/13603116.2016.1159254](https://doi.org/10.1080/13603116.2016.1159254)
- Smith Stephen, Daunic Ann, **Aydın Burak**, Van Loan Christopher, Barber Brian, Taylor Gregory (2016). Effect of Tools for Getting Along on Student Risk for Emotional and Behavioral Problems in Upper Elementary Classrooms A Replication Study. *School Psychology Review*, 45(1), 73-92., Doi: [10.17105/SPR45-1.73-92](https://doi.org/10.17105/SPR45-1.73-92)
- Santiago Poventud Lourdes, Corbett Nancy, Daunic Ann, **Aydın Burak**, Smith Stephen (2015). Developing Social-emotional Vocabulary to support Self-regulation for Young Children at Risk for Emotional and Behavioral Problems. *International Journal of School and Cognitive Psychology*, 2(3), 1-9., Doi: [10.4172/2469-9837](https://doi.org/10.4172/2469-9837)
- Smith Stephen, Ann Daunic, Barber Brian, **Aydın Burak**, Van Loan Christopher, Taylor Gregory (2014). Preventing Risk for Significant Behavior Problems Through a Cognitive Behavioral Intervention Effects of the Tools for Getting Along Curriculum at One Year Follow Up. *The Journal of Primary Prevention*, 35(5), 371-387., Doi: [10.1007/s10935-014-0357-0](https://doi.org/10.1007/s10935-014-0357-0)

## Advisor

- Bağdu Söyler Pelin, **Aydın Burak**, Atılğan Hakan (2021). PISA 2015 Reading Test Item Parameters Across Language Groups: A Measurement Invariance Study with Binary Variables . *Journal of Measurement and Evaluation in Education and Psychology* , 12 (2) , 112-128 . DOI: [10.21031/epod.800697](https://doi.org/10.21031/epod.800697)

## Books & Book Chapters

- Aydın Burak**, Algina James, Leite Walter, Atılğan Hakan, (2018) *An R Companion: A Compact Introduction for Social Scientists*, ANI Publishing, Ankara, ISBN:978-605-170-200-1
- Atılğan Hakan, Kan Adnan, **Aydın Burak** (2017). *Eğitimde Ölçme ve Değerlendirme*, ANI Publishing, Ankara

## **Technical papers**

Zitzmann, S., Lohmann, J. F., Krammer, G., Helm, C., **Aydın Burak**, & Hecht, M. (2022). A Bayesian EAP-Based Nonlinear Extension of Croon and Van Veldhoven's Model for Analyzing Data from Micro-Macro Multilevel Designs. *Mathematics*, 10(5), 842. MDPI AG. Retrieved from <http://dx.doi.org/10.3390/math10050842>

Kyle Hamilton, **Aydın Burak**, Atsushi Muzimoto (2016). MAVIS: Meta-Analysis Via Shiny. Comprehensive R Archive Network (CRAN).

## **PROJECTS**

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Researcher: Development of Early Childhood and Primary Education Assessment Framework for Children with Disabilities, UNICEF, *May 2018 – December 2020*

PI: Extending the Use of Open-source Software in Educational Research in Turkey, R Programming Language, *May 2016-December 2017*

Researcher: Adaptation of Embedded Instruction for Early Learning: Tools for Teachers Early Learning Program and Investigation of Its Effectiveness Using Two Professional Development Models, TÜBİTAK 3501, *November 2015 –November 2018*

## **WORK EXPERIENCE**

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### **Current**

*April 2020 – Present*

Associate Professor, Ege University, Izmir, Turkey

Description: Research and Teaching (Multilevel Models, Quantitative Foundations of Educational Research with R, Structural Equation Models, Assessment and Measurement in Education)

*August 2020 – Present*

Associate Director, Ege University, Izmir, Turkey

Description: Managing rankings-related: data gathering, submissions, strategy development, and communication.

*January 2019 - Present*

Advisor, Yunus Emre Institute, Ankara, Turkey.

Description: Developing and administering the Turkish Proficiency Exam in 58 different exam centers in 41 countries three times a year.

### **Previous Work**

*September 2014 – April 2020*

Faculty Member, RTE University, Rize, Turkey,

Description: Teaching (Assessment in Education, Introduction to Statistics, Data Mining, Research Methods)

*September 2013 – August 2014*

Intern, Camber Cooperation, Orlando, USA

Description: Data Analyst (Validity & reliability studies, advanced regression applications)

*September 2010 – August 2014*

Research Assistant, University of Florida, Gainesville, USA

Description: Data Analyst (Project PIs: Stephen Smith, Ann P. Daunic, Patricia Snyder)

# ACADEMIC PERFORMANCE GRAPHS

