

# Curriculum Vitae

## Personal Information

Name: Ömer Emre Can Alagöz

Position: Doctoral Candidate at the University of Mannheim

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## Academic Career

2021-ongoing University of Mannheim, Doctoral Candidate

2019-2021 Tilburg University, Master's Degree in Methodology and Statistics  
Thesis: *Making Sense of Measurement Non-invariance via Mixture Multigroup Factor Analysis*

2015-2019 Ege University, Bachelor's Degree in psychology  
Thesis: *Effects of Item Formation and Respondents' Social Desirability Levels on Psychometric Properties of a Questionnaire*

## Academic Positions

Oct. 2021- Research Staff at University of Mannheim, Department of Psychology, Chair for Research Methods and Psychological Assessments

Sep. 2020-Dec. 2020 Teaching Assistant at Tilburg University, Methodology and Statistics Department. "Causal Analysis Techniques"

## Publications in Peer-reviewed Journals

### *In English*

- Alagöz, Ö. E. C., & Meiser, T., Khorramdel L.** (submitted). Disentangling Individual Differences in Cognitive Response Mechanisms for Rating Scale Items: A Flexible Mixture Multidimensional IRTree Approach
- Alagöz, Ö. E. C., & Meiser, T.** (2023). Investigating Heterogeneity in Response Strategies: A Mixture Multidimensional IRTree Approach. *Journal of Educational and Psychological Measurement*, 0 (0), <https://doi.org/10.1177/00131644231206765>
- Alagöz, Ö. E. C., Gürlük, Y., O., Korkmaz, M. & Cömert, G.** (2023). An illustration of a latent class analysis for interrater agreement: identifying subpopulations with different agreement levels.

Journal of Measurement and Evaluation in Education and Psychology, 14(4), 492-507.  
<https://doi.org/10.21031/epod.1308732>

**Alagöz, Ö. E. C.**, & Vermunt J. K. (2022). Stepwise Latent Class Analysis in the Presence of Missing Values on the Class Indicators, *Structural Equation Modeling: A Multidisciplinary Journal*, DOI: 10.1080/10705511.2022.2030743

### *In Turkish*

Gürlük, Y. O., Korkmaz, M., Cömert, G., & **Alagöz, Ö. E. C.** (2023). Puanlayıcılar Arası Uyumun Farklı Ölçekleme Türleri, Puanlayıcı Sayısı Ve Puanlanan Sayısı Açısından İncelenmesi. *Dokuz Eylül Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, 25(1), 227-245.

## **Poster Presentations and Talks in Conferences**

### *Talks*

**Alagöz, Ö.E.C.**, & Meiser, T. (2024). Mixture IRTree Models for Exploring Heterogeneity in Response Mechanisms, Talk presented at the International Meeting of Psychometric Society, Czech Academy of Science, Prague, Czechia

**Alagöz, Ö.E.C.**, & Meiser, T. (2024). Disentangling Differences in Cognitive Response Mechanisms via Mixture IRTree Models, Talk presented at the Conference of German Psychological Society (DGPs), University of Vienna, Vienna, Austria

**Alagöz, Ö.E.C.**, & Meiser, T. (2024). Psychometric Modelling of Response Process Heterogeneity: A Mixture IRTree Models, Talk presented at the 9<sup>th</sup> International Conference on Measurement and Evaluation in Education and Psychology, Anadolu University, Eskisehir, Turkey

**Alagöz, Ö.E.C.**, & Meiser, T. (2023). People differ in how they response: Modeling heterogeneity in response strategies with mixture IRTrees Talk presented at the 16th Conference of the Section 'Methods and Evaluation' in the German Psychological Society (DGPs), University of Konstanz, Konstanz, Germany

**Alagöz, Ö.E.C.**, & Meiser, T. (2023). A mixture IRTree approach to deal with heterogeneity in response strategies. Talk presented at the International Meeting of the Psychometric Society (IMPS 2023), University of Maryland, College Park, USA

**Alagöz, Ö.E.C.**, & Meiser, T. (2023). Do people employ different response styles in their response strategies? An investigation with a mixture IRTree approach. Talk presented at the Congress of European Association of Methodology (EAM 2023), University of Ghent, Ghent, Belgium

**Alagöz, Ö.E.C.** & Vermunt, J.K. (2021) Farklı Kayıp Veri Mekanizmalarının Üç Adımlı En Çok Olabilirlik Örtük Sınıf Analizine Olan Etkilerinin İncelenmesi [*Performance of Three-step Latent Class Analysis Under Different Types of Missing Data Mechanisms*], Talk given at the Congress of Measurement and Evaluation in Education and Psychology, Gazi University, Ankara, Türkiye

Gürlük, Y.O., **Alagöz, Ö.E.C.**, Korkmaz, M. & Cömert G. (2021), Puanlayıcılar Arası Uyumun Örtük Sınıf Analizi Yöntemi ile İncelenmesi [Examination of Inter-rater Agreement via Latent Class

Analysis], Talk presented at the Congress of Measurement and Evaluation in Education and Psychology, Gazi University, Ankara, Türkiye

**Alagöz, Ö.E.C.** & Korkmaz, M. (2019), Ölçme Araçlarında Madde Sunum Formatının Ve Sosyal Beğenirlik Düzeyinin Geçerlik Ve Güvenirlik Üzerine Etkileri [*Effects of Item Formation and Respondents' Social Desirability Levels on Psychometric Properties of a Questionnaire*], Talk presented at the 23<sup>rd</sup> National Congress of Psychology Students, Middle East Technical University, Ankara, Türkiye

Korkmaz, M., Gürlük, Y.O., Cömert, G., **Alagöz, Ö.E.C.** & Karataş, D. (2019), En güçlü ve en zayıf karakter güçlü Yönlerinin yetişkin örnekleme çeşitli Değişkenler açısından incelenmesi [*An Examination of the Strongest and the Weakest Character Strengths in Adult Sample*], Talk presented at the 3rd Eurasian Congress on Positive Psychology, Üsküdar Üniversitesi, İstanbul, Türkiye

Korkmaz, M., Gürlük, Y.O., Cömert, G., Güngör D., & **Alagöz, Ö.E.C.** (2018) Karakter Güçlü Yönleri Üzerine Bir Ölçek Geliştirme Çalışması [*A Measure Construction Study on the Character Strengths*], Talk presented at the 20<sup>th</sup> National of Psychology, TED University, Ankara, Türkiye

### Posters

**Alagöz, Ö.E.C.**, & Meiser, T. (2023). A mixture multidimensional IRTree (MM-IRTTree) model for exploring heterogeneity in response strategies. Poster presented at the Summer School of Research Training Group 'Statistical Modeling in Psychology' (SMiP 2023), University of Mannheim, Mannheim, Germany

**Alagöz, Ö.E.C.**, & Meiser, T. (2022). Investigating The Co-existence Of Response Styles Via Mixture Multidimensional IRTrees. Poster presented at the International Meeting of the Psychometric Society (IMPS 2022), University of Bologna, Bologna, Italy

**Alagöz, Ö.E.C.**, De Roover, K., & Vogelsmeier, L.V.D.E. (2021). Making Sense of Measurement Noninvariance via Mixture Multigroup Factor Analysis. Poster presented at the 15th Conference of the Section 'Methods and Evaluation' in the German Psychological Society (DGPs), online

Gürlük, Y.O., Korkmaz, M. & **Alagöz, Ö.E.C.** (2022). Puanlayıcılar arası uyumun ikinci mertebe doğrulayıcı faktör analizi ile incelenmesi [*Investigating Interrater Agreement with the Second-order Factor Analysis*]. 21. National Psychology Congress, Dogus University, İstanbul, Türkiye.

### Peer Review

- *Psychometrika*
- *Educational and Psychological Measurement*
- *Behaviormetrika*
- *European Journal of Psychological Assessment*

## **Societies**

- Psychometric Society (US)
- European Association of Methodology (Germany)

## **Teaching**

“Statistical Analyses with using R”, Seminar taught at the University of Mannheim, 2024, Bachelor level.

“Statistical Analyses with using R”, Seminar taught at the University of Mannheim, 2023, Bachelor level.

“Causal Analysis Techniques”, Seminar taught at Tilburg University, 2021, Bachelor level.

## **Miscellaneous**

R-Shiny app for illustrating p-hacking with real-world datasets from psychology:

<https://bit.ly/3n58G8S>, Internship project under the supervision of Michèle B Nuijten