

Yagmur Yavuz Ozdemir, M.Sc. – Ph.D. Candidate

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EDUCATION

Present- August 2020	Auburn University [AU] Department of Mathematics and Statistics <i>Doctor of Philosophy [Ph.D.], Candidate, Concentration in Statistics</i> <i>Expected graduation:</i> May 2026 <i>Research Area:</i> Model selection, feature selection, network analysis	Auburn, AL, USA
July 2020- September 2018	Galatasaray University [GSU] Department of Mathematics <i>Master of Science [M.Sc.]</i> [English Instruction] <i>Research Area:</i> Network analysis <i>Thesis Title:</i> Network structure analysis	Istanbul, Turkey
June 2018- September 2012	Bogazici University [BOUN] Department of Mathematics <i>Bachelor of Science [B.Sc.]</i> [English Instruction]	Istanbul, Turkey
June 2012- September 2008	Bornova Anatolian High School <i>Physical Sciences</i>	Izmir, Turkey

EXPERIENCE

ACADEMIC

Present- August 2020	Auburn University [AU] Department of Mathematics and Statistics <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none">• Math Tutoring Center Head tutor - assisting students with their classes• Math1120 – Precalculus Algebra Instructor of record• Math1000 – College Algebra GTA – held live learning sessions using active learning.• Math1150 – Precalculus Algebra and Trigonometry Instructor of record (online class)• Stat3010 – Statistics for Engineers and Scientists Instructor of record• Math1610 – Calculus I Recitation leader – held weekly recitation sessions by problem solving• Math1620 – Calculus II Recitation leader – held weekly recitation sessions by problem solving• Stat2510 – Statistics for Biological and Health Sciences Classroom Assistant – assisting the lecturer with active learning activities• Stat3610 – Probability and Statistics Instructor of Record	Auburn, AL, USA
January 2020- September 2019	Istanbul Bilgi University Department of Mathematics <i>Teaching Assistant</i> [Part-Time] Holding weekly problem sessions on <ul style="list-style-type: none">• Math169 – Calculus for Scientists and Engineers I• Math175 – Calculus I• Math217 – Linear Algebra and Complex Analysis	Istanbul, Turkey

- **Math235 – Calculus for Economists and Administrative Sciences**

June 2019- September 2018	Galatasaray University Department of Mathematics <ul style="list-style-type: none"> • Math201 – Multivariate Calculus Holding problem sessions within a graduate course on teaching • Math204 – Abstract Algebra Holding problem sessions voluntarily 	Istanbul, Turkey
INDUSTRY		
March 2019- September 2018	Universal Counselor Teacher Tutoring high school students on SAT and IB exams.	Istanbul, Turkey
December 2016- June 2016	Anbean Project Coordinator [Intern] Organizing seminars and events on different fields collaborating with student clubs and companies.	Istanbul, Turkey
March 2017- April 2016	Markafoni Human Resources [Intern] Assisting with the daily emails. Orientation days with the new employees and interns. Archive organizing and documenting.	Istanbul, Turkey
July 2015- June 2015	Garanti Bank Bostanli Branch [Intern] Assisting with daily documents and archiving.	Izmir, Turkey

OUTREACH

- Alabama Science Olympiad 2025 – Air Projectory (B) volunteer judge
- Mathematics Solidarity Platform (Matematik Dayanisma Platformu) 2023– Introduction to Calculus
- EmpowHER 2023 – Exhibitor, the Monty Hall Problem
- Alabama Science Olympiad 2022– Codebusters(B/C) volunteer judge

PUBLICATIONS

PUBLISHED

Ozdemir, Y., Nukala, P., Molinari R., Deshpande G. (2023). A Multi-Model Framework to Explore ADHD Diagnosis from Neuroimaging Data. *Journal of Data Science – SDSS 2023 Special Issue*.

IN PROGRESS

Richter, E., Patel, P., **Ozdemir, Y.**, Nnyaba, U., Molinari, R., Babu J., Geetha, T. (2025). The Impact of the Timing of Sleep in Childhood on Epigenetic Modifications: Novel DNA Methylation Patterns. *Expected submission to International Journal of Obesity by August 2025*.

CONFERENCE ABSTRACTS

Ozdemir, Y., Molinari R., (2025). A Statistical Test for SWAG: Assessing the Rashomon Effect in Sparse Model Selection. Joint Statistical Meetings, Nashville (TN), August 2025

Ozdemir, Y., Molinari, R., Bakalli G., Guerrier S., Miglioli C., Orso S., Karemera M., Scaillet O. (2023). All Models Are Wrong, but a Set of them is Useful. Joint Statistical Meetings, Portland (OR), August 2024

Ozdemir, Y., Molinari, R., Bakalli G., Guerrier S., Miglioli C., Orso S., Karemera M., Scaillet O. (2023). All Models Are Wrong, but a Set of them is Useful. Conference on Statistical Practice, New Orleans (LA), February 2024

Ozdemir, Y., Nukala, P., Molinari R., Deshpande G. (2023). A Multi-Model Framework to Explore ADHD Diagnosis from Neuroimaging Data. Symposium on Data Science and Statistics, St. Louis (MO), May 2023

Ozdemir, Y., Nukala, P., Molinari R., Deshpande G. (2023). A Multi-Model Framework to Explore ADHD Diagnosis from Neuroimaging Data. ASA AL-MS Chapter Conference, Birmingham (AL), March 31, 2023

AWARDS & HONORS

- ASA Alabama – Mississippi Chapter Conference (2023) Oral Presentation Award, 3rd Place: \$25
- Dr. J. Earl Perry Endowed Summer Graduate Award, 2023: \$2000
- AU COSAM Graduate Student Travel Award (2023) for SDSS 2023, Amount: \$500
- AU Mathematics and Statistics Department Travel Award (2023) for SDSS 2023, Amount: \$500
- AU Graduate Student Council Travel Fellowship (2023) for SDSS 2023, Amount: \$400

CONFERENCES & COURSES

SHORT COURSE

- Course on Machine Learning, 2019
Instructors: Salih Durhan

CONFERENCES

- AU Symposium 2025, Auburn (AL) – Co-author **1st place** in College of Human Sciences for an oral presentation
- SIAM Conference on Mathematics of Data Science (MDS24) – Poster Presenter
- American Statistical Association Conference on Statistical Practice, 2024, New Orleans (LA) – Poster Presenter
- American Statistical Association AL-MS Chapter conference, 2023, Birmingham (AL) – Presenter **3rd Place** in Oral Presentation Award
- Seminar on Statistics and Data Science, 2023, St. Louis (MO) - Presenter
- 5th Spring Mathematics Meetings, 2019, Istanbul Bilgi University
- Study group on Hierarchical Structures, 2019, Galatasaray University
- Women and Mathematicians: Applied Mathematics, 2019, IMBM
- Differential forms summer school, 2017, Cesmekoy Izmir

SOFTWARE

- R – Advanced
- Python - Intermediate
- Html - Beginner
- Latex - Advanced

CLUB MEMBERSHIPS

- Auburn University Turkish Student Organization – Co-President , 2024 - present
- Auburn University Data Science Society - Director of Programming, 2022-2024
- Auburn University Turkish Student Organization - Secretary , 2023
- Galatasaray University Mathematics Club, 2018-2019
- Bogazici University Management and Economics Club – Coordinator of finance and economics subcommittee, 2014-2015
- Bogazici University Management and Economics Club – Member of media and communication subcommittee, 2013-2014
- AIESEC – Organization committee for global citizen, 2013-2014