YIGIT YARGILI

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EDUCATION

Ph.D Julius-Maximillans University Würzburg, AG Haberkern   2025-...

M.Sc. Bielefeld University, Behavior: From Neural Mechanisms to Evolution 2022-2024

B.A. Özyeğin University, Psychology   2018-2022
Graduated with a High Honor Degree

H.S. Vefa High School   2013-2018
Placed in the top 1% in the placement exam

RESEARCH EXPERIENCE

PhD Candidate, Haberkern Lab
Julius Maximillans University Würzburg, Würzburg, Germany   2025-...
Supervisor: Hannah Haberkern

- Conducting connectomics-driven research on neural correlates of navigational behavior in animals
- Utilizing VR setups to analyze how neural circuit architecture and function support adaptation to dynamic environments
- Investigating the relationship between neural "structure" and behavioral adaptation
- Aiming to bridge neural circuitry and observable behavioral outcomes, contributing to insights into neurobiology and spatial navigation

Thesis Student, Neurobiology Lab
Bielefeld University,Bielefeld,Germany   04/2024-10/2024
Supervisor: Annkathrin Sonntag, Olivier Bertrand, Martin Egelhaaf

- Segmentation of the learning flights with bumblebees(*B.terrestis*)
- Using GMM-based machine learning models to segment the free learning flight
- Tried to achieve a structural understanding of the crucial learning flight in hymenopterans

Graduate Research Assistant (HiWi), Evolutionary Biology Lab   11/2023-04/2024
Bielefeld University,Bielefeld,Germany
Supervisor: Shreya Dimri, Alfredo Sanchez-Tojar
- Involved in a systematic search for a meta-analysis on "Population density effects on risk-taking behavior"
- Responsible for assembling and organizing a comprehensive literature database
- Engaged in systematic screening of selected studies, involved in data screening and analysis techniques.
- Collaborating with team members on a DFG Project (Project ID: 3160099922) focused on understanding the connections between population density and risk-taking behavior across species

Project Student, Neurobiology Lab
Bielefeld University,Bielefeld,Germany   01/2024-03/2024
Supervisor: Annkathrin Sonntag
- Profiling the distance and altitude for the nest during the free flight situations in cluttered and less cluttered environments

Project Student, BioCybernetics Lab
Bielefeld University,Bielefeld,Germany   10/2023-12/2023
Supervisor: Martin Fritz Strube-Bloss
- Examining the possible odor-induced activity in the palps(*C.Morossus*)
- Examining if the odor response profiles differ between antennae and palp.
- Establishing EPGs and EAGs
- Registration and analyses (amplitudes, response dynamics, etc.)

Undergraduate Research Assistant, **Language-Cognition-Developmental Lab**
Ozyegin Uni., Istanbul,Turkey   2021-2022
Group Head: Ercenur Ünal
- **Projects worked on**: Event Representation in Cognition, Language, and Development (as an undergrad research fellow) (Advisor: Dr. Ercenur Ünal)
- Cross-linguistic investigation of events in speech and gesture (Advisor: Dr. Ercenur Ünal, in collaboration with Dr. Myrto Grigoroglu of University of Toronto)

PROFESSIONAL EXPERIENCE

Long-Term Human Resources Consulting Intern
ProfilInternational/Odgers Berndtson, Istanbul   2021-2022
- Helped with day-to-day operations, conducted phone interviews and assessments
- Carrying out recruitment processes for specific positions
- Prepared individual test result reports
- Conducted one-on-one mock interviews with applicants and people with leadership potentials for several companies Odgers Berndtson works with

Senior Chief Scout

Trscouts, Ankara   2015-2023

- Founded in 2015 to meet the adequate football scouting need of the Turkish football ecosystem
- I started as a regional scout responsible for the Danish League, then worked as a regional scout for the French Leagues. Subsequently, promoted to the Chief scout and finally to the Senior chief scout position.
- Worked with top and second-tier Turkish clubs to find foreign football talents
- Was responsible for French and German professional leagues as well as Turkish expat players in Germany, France, Netherlands, and Scandinavia regions
- Conducted day-to-day operations, in charge of a team of 11 scouts
- Prepared monthly reports to the COO and Directors

Human Resources and Equity Research Intern

SekerInvest, Istanbul   2021

- Made my internship in both HR and Research departments
- Learned equity valuation methods, value investing philosophies, and investing strategies
- Learned about portfolio management, risk management in portfolios, computational investing models
- Attended mock interviews as an HR assistant

HONORS AND AWARDS

STAR (Intern Researcher) Scholarship Recipient, the Scientific and Technological Research Council of Turkey   2021

Member/Treasurer, Psi Chi   2021
One of the founding members of the Turkish chapter of the Psi Chi Honor Society

1xCEO Program Finalist   2021
Organized by Odgers Berndtson, and young talents work with CEOs of corporations such as Takeda, Odgers Berndtson, Getir to solve corporate problems

Dean's Honor Roll (6 times)   2019-2022

Academic Personnel Selection and Graduate Education Entrance Exam   2021
Placed in the top 1%, Score: 90

CyberPark Office Prize, Bilkent University (as Trscouts)   2020

PRESENTATIONS

Yargılı, Y. & Karşılar, H. (2021). *Role of Perceptual Load on Selective Attention: A Signal Detection Theory Approach.* Poster presented at the Çiğdem Kağıtçıbaşı Research Festival, Istanbul, Turkey.

Yargılı, Y. (2024, October 10). *Influence of Nest Periphery Clutter on Learning Flight Structure in Bumblebees.* Presentation at Bielefeld University, Neurobiology colloquium Bielefeld, Germany

Yargılı, Y., Agarwal, A., Temgoua, G.& Conto, E., *Cross-session Decoding Accuracy: Can a Model Trained on Motor Execution Predict Motor Imagery.* Poster presented at the Neuromatch End of Term Project Presentation Festival, Online.

PROFESSIONAL TRAINING&CERTIFICATES

Computational Neuroscience Summer School
Neuromatch Academy, Online, 2021
Description: Neuromatch Academy is a one-month-long international and interactive summer school on computational neuroscience and deep learning processes. Learned to use python while working with neuroscientific material. Worked with people from all around the world and presented a project based on electrocorticographic data of Miller et. al., 2019
Brain Functional Connectivity and Structural Morphometry Analyses with Magnetic Resonance Imaging, Istanbul University, 2020
Description: Online certificate program given by the Istanbul University Medical Faculty

EEG Usage in Neuroscience Experiment: Basic and Advanced Analysis Methods, Bilkent University, 2020
Description: Online certificate program given by the Bilkent University Cognitive Science Department

SKILLS

Programming Language: Python (Advanced), R(Basic), Matlab(Advanced)
Statistics Platforms: SPSS(Advanced), jamovi (Advanced)
Applications: Microsoft Office (Expert)
Platforms: Freesurfer(Basic), PsychoPy(Expert), RStudio(Basic)
Languages: English (C2), German (B1), Turkish (Native)