

# FETTAH KIRAN

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## SUMMARY

A Ph.D. student conducting research in the Affective & Data Computing [ACDC] lab under the esteemed guidance of Prof. Ioannis Pavlidis. My academic journey includes an M.S. in Computer Science earned at Louisiana State University.

## EDUCATION

### Ph.D., Computer Science

University of Houston, Houston, TX

College of Natural Sciences and Mathematics

Relevant coursework: Statistical Methods in Research, Ubiquitous Computing

Research: Affective Computing, Human-Computer Interaction, Physiological Signal Processing

*Expected Aug 2024*

3.4 GPA

### M.S., Computer Science

Louisiana State University, Baton Rouge, LA

Division of Computer Science and Engineering

Relevant coursework: AI, ML, Video Game Design, Scientific Info Visualization

Research: Brain Computer Interaction, ADHD, Serious Games

*May 2020*

3.5 GPA

### B.S., Department of Computer and Instructional Technologies Education

Ondokuz Mayis University, Samsun, Turkiye

Faculty of Education

Relevant coursework: Material Design, Programming Languages, AI, Distance Learning

*May 2013*

3.0 GPA

## TECHNICAL SKILLS

**Programming:** Python, R, Swift, C++

**Design and Modeling Tools:** Xcode, SwiftUI, Canvas, Draw.io

**Data Analysis and Statistics:** R/Rmd, Python, Multimodal Data

**Operating Systems:** MacOS, MS Windows, Linux, Bash, Cluster Computing

**Certifications:** [Micro-credential in Data Science](#) - HPE DSI (2023) | CITI - University of Houston | Human Research Investigation - LSU IRB (2019)

## EXPERIENCE

Department of Computer Science, University of Houston, TX: **Graduate Teaching Assistant** *Aug 2021 – Present*

- Graded and prepared solutions for assignments, midterms, and finals for graduate-level courses; [Statistical Methods in Research \(R\)](#), [Ubiquitous Computing \(Swift\)](#), Machine Learning (Python), Data Science II (Python)
- Guided 20+ students on 6 University Computer Science labs on data acquisition, processing, and reporting results of experiments.
- Consistently received positive feedback - [[Fall 2022](#), [Spring 2023](#), [Fall 2023](#)] - resulting in a 4.6/5.0 on student evaluations.

Texas Institute for Measurement, Evaluation and Statistics, Houston, TX: **Research Assistant** *Jun 2023 – Aug 2023*

- Prepared experimental setup
- Collected, curated, and visualized NSF-funded Affective Math project data using R
- Developed analytic methods in R

## ACADEMIC PROJECTS

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Affective Math Project, University of Houston, TX: **Researcher** Fall 2020 – Present  
Collaborated in CPL team to conduct a project, Affective Math, funded from NSF (#1760760)

- Executed experiments
- Collecting and curating data (R)
- Developed analytic methods

M.S. Degree Study, Louisiana State University, LA: **Researcher** Fall 2018 – Spring 2020

- Developed an experimental protocol to explore the effects of background music in a serious game on attention in children with ADHD using Tetris and a brain-computer interface setup
- Conducting experiments with and without ADHD students
- Analyzed and presented the results to committee members

## PUBLICATIONS

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1. Kiran F., Tolar T., Wesley A., Cirino P., Tsiamyrtzis P. and Pavlidis I. (2023). Relatable and Humorous Videos Reduce Hyperarousal in Math Exams *Death Studies*. <https://doi.org/10.1109/ACI IW59127.2023.10388115>
2. Arpacı I., Karatas K., Kiran F., Kusci I., Topcu A. (2021). Mediating role of positivity in the relationship between state anxiety and problematic social media use during the COVID-19 pandemic *Death Studies*. <https://doi.org/10.1080/07481187.2021.1923588>
3. Soysal OM., Kiran F., Chen J. (2020). Quantifying Brain Activity State: EEG analysis of Background Music in A Serious Game on Attention of Children *4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*. <https://doi.org/10.1109/ISMSIT50672.2020.9255308>
4. Kiran F. (2020). Exploring effects of background music in a serious game on attention by means of EEG signals in children. *Louisiana State University and Agricultural & Mechanical College*.

## OTHER WORK EXPERIENCE

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Distance Learning Center, Canakkale Onsekiz Mart University, Turkiye: **Content Developer** 2013 – 2015

- Designed class materials
- Resolved technical issues in Adobe Connect to ensure the smooth completion of each live session

Department of Education, Ondokuz Mayıs University, Turkiye: **Teaching Internship** Sep 2012 – May 2013

- Assisted primary school students and teachers in computer class sessions with trendy materials and methods

## SEMINARS AND CONFERENCES

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ACII2023 - Affective Computing Intelligent Interaction, The MIT Media Lab, Cambridge, MA, USA Sep 10-13, 2023  
Position: Participant

8th International Computer Instructional Technology, Trakya University, Edirne, Turkiye Sep 2014  
Position: Participant

## HONORS AND AWARDS

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Graduate Tuition Fellowships (GTF), UH Cullen College of Engineering Aug 2022 – Present  
GTF is a competitive award program which provides funding to assist in defraying cost of in-state tuition

YLSY Scholarship, The Ministry of National Education of Turkiye Aug 2017 – Present  
Full-ride scholarship to pursue a M.S. and PhD. education abroad by the Turkish government