

# Bashir Rastegar Panah

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## About Me

I am an applied scientist with hands-on experience in developing data-driven solutions across diverse domains, including responsible AI, machine learning explainability, recommender systems, NLP, and genomics. I have successfully led R&D projects in both academic and startup environments.

## Experiences

- ◇ **Harness**, Mountain View, CA ..... Feb 2024 - present  
Senior Machine Learning Engineer  
*Developing AI-driven tools for continuous delivery within the Harness platform.*
- ◇ **Fiddler AI**, Palo Alto, CA ..... Nov 2021 - Jan 2024  
AI Scientist  
*Developed model-based safety metrics for large language models using low-rank fine-tuning.*  
*Designed and implemented tools for measuring distributional shifts in unstructured data.*  
*Designed and prototyped anomaly detection algorithms for text and image embeddings.*  
*Developed a report generator library for the Fiddler platform. [📄](#)*
- ◇ **Boston University**, Boston, MA ..... Sept 2014 - Aug 2021  
Graduate Research Assistant  
*Developed new tools for enhancing fairness, privacy, and explainability of recommender systems.*  
*Developed graph-based data mining techniques for analyzing single-cell RNA sequencing data.*
- ◇ **Max Planck Institute SWS**, Saarbrücken, Germany ..... Feb 2019 - May 2019  
Internship  
*Designed a multi-armed bandit framework for auditing data minimization in predictive ML models.*
- ◇ **Fraunhofer IAIS**, Sankt Augustin, Germany ..... Sept 2012 - May 2014  
Machine Learning Engineer  
*Developed machine learning solutions for analyzing user preferences in online recipe platforms.*
- ◇ **University of Bonn**, Germany ..... Sept 2011 - Jan 2012  
Student Research Assistant at Signal Processing Department  
*Implemented matrix-factorization methods for detecting auditory objects in audio signals.*

## Education

- ◇ **Boston University**, Ph.D. Computer Science ..... Boston, MA, 2021
- ◇ **University of Bonn**, M.Sc. Computer Science ..... Bonn, Germany, 2013
- ◇ **University of Isfahan**, B.Sc. Software Engineering ..... Isfahan, Iran, 2010

## Patent

“System and Method for Data Drift Detection to Improve Data Integrity for Data within a Database”  
**US Patent No. 11,836,163** (Dec 2023)

## Selected

## Publications

(See my [Google Scholar](#) profile for a complete list of publications.)

- ◇ “Auditing Black-box Prediction Models for Data Minimization Compliance” **NeurIPS 2021** [📄](#) [📄](#)
- ◇ “Single-cell transcriptional networks in differentiating preadipocytes suggest drivers associated with tissue heterogeneity” **Nature Communications (2020)** [📄](#) [📄](#)
- ◇ “Fighting Fire with Fire: Using Antidote Data to Improve Polarization and Fairness of Recommender Systems” **WSDM 2019** [📄](#) [📄](#)
- ◇ “Collective Attention to Social Media Evolves According to Diffusion Models” **WWW 2014** [📄](#)