Sedigheh Eslami

Curriculum Vitae

Research Interests

Muti-Modal Deep learning
Vision–Language Models
Visual Question Answering
Multi-Modal Generative AI

Education

2022–Present	**PhD Student**, *Hasso Plattner Institute*, Potsdam, Germany
2021–2022	**External PhD Student**, *Hasso Plattner Institute*, Potsdam, Germany
2014–2017	**Masters of Computer Science**, *Saarland University*, Saarbrücken, Germany
2009–2014	**Bachelor of Computer Engineering**, *Amirkabir University of Technology*, Tehran, Iran
	Specialized in Software Engineering
2008-2009	**Pre-University in Mathematics**, *Farzanegan Complex (National Organization for Developing Exceptional Talents, NODET)*, Gorgan, Iran
2005-2008	**High School in Mathematics**, *Farzanegan Complex (National Organization for Developing Exceptional Talents, NODET)*, Gorgan, Iran

Publications

2024	Bleidt, Tibor*, Sedigheh Eslami* et al. "ArtQuest: Countering Hidden Language Biases in ArtVQA." *WACV 2024.* [Paper] [Code] [Presentation]
2023	Eslami, Sedigheh et al. "PubMedCLIP: How Much Does CLIP Benefit Visual Question Answering in the Medical Domain?"*EACL 2023.* [Paper] [Code] [Presentation]
2021	Eslami, Sedigheh et al. "TeamS at vqa-med 2021: BBN-Orchestra for long-tailed medical visual question answering."*CLEF (2021).* [Paper] [Code]
2020	Eslami, Sedigheh et al. "SehMIC: Semi-hierarchical Multi-label ICD Code Classification."*CLEF (2020).* [Paper]
2017	Eslami, Sedigheh et al. "Privacy of Hidden Profiles: Utility-Preserving Profile Removal in Online Forums." *Proceedings of the 2017 ACM CIKM (2017)* [Paper]

Professional Experience

2022	**Graduate Researcher at Hasso Plattner Institute**, *Contrastive vision-language pre-training*, Potsdam
2022	**Data Analyst at Data4Life (part-time)**, *Business Intelligence*, Potsdam
2020–2022	**Scientific Researcher at Data4Life**, *Medical visual question answering, Automated ICD10-CM assignment to clinical text*, Potsdam
2019–2020	**Data Scientist and Project Manager at Data4Life**, *Performing data analysis on clinical EHR data and managing a project on clinical natural language processing with Charite and Berlin Institute of Health*, Potsdam
2017–2019	**Software Engineer at Data4Life**, *Developing web applications (backend and frontend) and data ingestion pipeline for Analytics Platform*, Potsdam
2017 SS	**Intern at SAP Security Research Group**, *working on differentially private text mining*, Karlsruhe
2016	**Research Assistant at Databases and Information Systems Department of Max-Planck-Institut für Informatik**, *woriking on Privacy-Utility trade off in social media*, Saarbrücken
2014	**Student Work at Computer Vision and Multimodal Computing Department of Max-Planck-Institut für Informatik**, *provided ground truth for autonomous vehicle data-set*, Saarbrücken
2013	**Intern at Scientific Green Co. as Database Architect and Manager**, *worked on partitioning, clustering, and indexing databases for images with oracle database language*, Tehran, Iran

Honors

2021	Ranked 3rd in the international Medical Visual Question Answering challenge (VQA-Med) held by ImageCLEF
2016	Rewarded with the student fellowship for high-ranked master students at Saarland University
2009	Selected among special talents, ranked 665th, among more than 120,000 attendees in national university entrance exam of Iran

Academic Services

Teaching

Summer 2023	**Natural Language Processing**, *Teaching Assistant*, Hasso Plattner Institue
Winter 2020	**Clinical Natural Language Processing**, *Invited Talk*, Hasso Plattner Institue
Summer 2016	**Statistical Natural Language Processing**, *Teaching Assistant*, Saarland University

Master Thesis Supervision

Winter 2024	**Maximillian Schulze**, *Advisor*, Hasso Plattner Institue
Summer 2023	**Laurin Siefermann**, *Advisor*, Hasso Plattner Institue
Winter 2023	**Nastassia Heumann**, *Advisor*, Hasso Plattner Institue
Winter 2023	**Tibor Bleidt**, *Advisor*, Hasso Plattner Institue

Journal/Confrence Reviewer

2024 **European Conference on Computer Vision (ECCV)**

2023 **IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)**

2023 **IEEE Transactions on Medical Imaging**

2023 **TheWebConf**

Computer skills

Programming Languages

Proficient Python, Java, SQL, NodeJS, Javascript

(I've been programming with these languages since 2010)

Worked with Scala, React, MATLAB, R, OWL

I've done some projects using these languages

CV, NLP and Deep Learning Skills

Proficient PyTorch, HuggingFace, Tensorflow, OpenAI CLIP, DINO, BERT, clinicalBERT, Word2Vec, GloVe, LSTM, CNN, NLTK, spaCy, gensim, spark

(I've been working with these libraries and concepts since 2018)

Languages

English Fluent

German Upper Intermediate (B2)

Persian Maternal