

CONTACT

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SKILLS

| | |
|----------------------|--------|
| Python | 7+ yrs |
| C++ | 7+ yrs |
| Torch and Tensorflow | 7+ yrs |
| MATLAB | 7+ yrs |
| GIT | 5+ yrs |
| Linux | 5+ yrs |
| Web Development | 3+ yrs |
| R | 3+ yrs |

HAMIDREZA HASHEMPOOR

Research Scholar - Computer Science & Engineering

EDUCATION

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|---|-----------------|
| PhD - Computer Science (Probabilistic Generative Models) University of Stuttgart - Stuttgart - Germany | 2025.12- ... |
| MSc - Electrical & Computer Engineering (Machine Learning and Information Theory) Seoul National University - Seoul - Korea | 2020.9 - 2023.2 |
| BSc - Electrical & Computer Engineering (Control Systems) University of Tehran - Tehran - Iran | 2015 - 2020 |

WORK EXPERIENCE

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|--|--------------|
| Machine learning engineer [Senior Researcher] Pintel , Seoul | 2023-Present |
| Computer vision applications. Dealing with SOTA detectors and trackers for traffic data and camera Networks. Multi thread system handling. | |
| Machine learning engineer [Junior Researcher] Cafe Bazaar, Tehran | 2019 |
| Creating data pipe-lines and analysing the neural network models. | |

PROJECTS

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| Vision Applications Tool: C++, Python, Torch-TensorFlow | 2023-Present |
| Implementation of vision pipelines in my company and working with various detector and tracker modules. Multi thread system handling and camera network is another aspect of job. | |
| Advanced Statistics Tool: Python | 2022-Present |
| Implementation of statistical concepts including MLE, Fisher information, Asymptotic analysis, Biased and unbiased estimators, Shrinkage estimators, HMM, MC and other sampling, GMM and exponential families, Poisson regression, Bootstrapping, Empirical Bayes. | |

ACHIEVEMENTS

Best Paper Award

Best paper award in Korean Telecommunication Conference, 2022

SNU Scholarship

Selected as a Talented foreigner student for MS program in SNU, 2020

Physics Olympiad

Honor Diploma recipient in the 27th Iranian National Physics Olympiad, 2014

TOEFL

105(25,28,24,28)/120
2024

Advanced Deep Learning Tool: Python, Torch-TensorFlow

Implementation of advanced concepts of deep learning including Generative models (GAN and variational structure families), Probabilistic Approach to Embedding, Transfer Learning using EfficientNet, Sentiment Analysis with BERT, Unsupervised Representation Learning, SimCLR, Contrastive Predictive Coding, Downstream tasks analysis.

2021-Present

PUBLICATIONS

Structured Temporal Inference in State-Space Models

AISTATS 2026

Hamidreza Hashempoor

Dada-Assisted Channel Estimation and Detection with Deep Conditional Generative Networks

TMLCN 2025

Hamidreza Hashempoor, Wan Choi

Code PDF

Gated Inference Network: Inferencing and Learning State-Space Models

Neurips 2024

Hamidreza Hashempoor, Wan Choi

PDF

GaussianNet: Data-Assisted Channel Estimation with Deep Gaussian Networks

KICS 2022

Hamidreza Hashempoor, Wan Choi

PDF

Deep-LfD: Deep robot learning from demonstrations

Impacts 2021

F Zhong, Hamidreza Hashempoor, K Nazari Sasikolomi, A Ghalamzan Esfahani

PDF

Glance-MCMT: A General MCMT Framework with Glance Initialization and Progressive Association

Preprint 2025

Hamidreza Hashempoor

Code PDF

FastTracker: Real-Time and Accurate Visual Tracking

Preprint 2025

Hamidreza Hashempoor, Yu Dong Hwang

Code PDF

FeatureSORT: Essential Features for Effective Tracking

Preprint 2025

Hamidreza Hashempoor, Rosemary Koikara, Yu Dong Hwang

PDF

A data-set of piercing needle through deformable objects for Deep Learning from Demonstrations

Preprint 2020

Hamidreza Hashempoor, Kiyanoosh Nazari, Fangxun Zhong, Amir Ghalamzan E.

PDF