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Rahim Entezari

Education

2022–Present **Research Scholar**, *University of Washington*, Seattle
Exploring large-scale multimodal pre-training, under the supervision of Prof. Ludwig Schmidt

2019–Present **Ph.D.**, *Graz University of Technology* , Graz
Exploring generalization in deep learning

2014–2017 **MSc.**, *Iran University of Science and Technology*, Tehran
Human Gaze estimation using probabilistic graphical models

2008–2013 **B.S.**, *Amirkabir University of Technology*, Tehran

Honors and Awards

2021–2022 **Research Credit**, *Google*
$2 \times \$30,000$ Google Cloud Credit for research proposals in collaboration with Google Research.

2022 **Marshall Plan Scholarship**, Vienna
Austrian funding to transfer of knowledge between USA and Austria, 10% acceptance rate.

2020 **Trustworthy AI program**, *Austria Wirtschaftsservice*, Vienna
Austrian government funding for startups worth of 200,000 €, 2% acceptance rate.

Pre-prints

2022 **The Role of Pre-training Data in Transfer Learning**
Entezari, R., Wortsman, M., Saukh O., Sedghi, H., Schmidt, L.

2022 **Linear Mode Connectivity of Deep Neural Networks via Permutation Invariance and Renormalization**
Jordan, K., Sedghi, H., Saukh O., Entezari, R., Neyshabur, B.

Selected Publications

2022 **ICLR**, *The Role of Permutation Invariance in Linear Mode Connectivity of Neural Networks*
Entezari, R., Sedghi, H., Saukh, O., Neyshabur, B.

2022 **ICML Workshop on "Pre-training: Perspectives, Pitfalls, and Paths Forward**, *How well do contrastively trained models transfer?*
Shariatnia, M.*, Entezari, R.*, Wortsman, M., Saukh, O., Shcmidt, L.

2022 **ICML Workshop on "Hardware Aware Efficient Training**, *The Role of Permutation Invariance in Linear Mode Connectivity of Neural Networks*
Corti, F.*, Entezari, R.*, Hooker, H., Bacciu, D., Saukh, O.

2022 **MICCAI Workshop on Applications of Medical AI**, *Deep Neural Network Pruning for Nuclei Instance Segmentation in Hematoxylin & Eosin-Stained Histological Images*
Mahbod, A.*, Entezari, R.*, Saukh, O., Ellinger, I.

2021 **ICML Workshop on "Over-parameterization: Pitfalls**, *Understanding the effect of sparsity on neural networks robustness*
Timpl, L.*, Entezari, R.*, Sedghi, H., Neyshabur, B., Saukh, O.

2019 **ACCV**, *Avid: Adversarial visual irregularity detection*
Sabokrou, M., Pourreza, M., Fayyaz, M., Entezari, R., Fathy, M., Gall, J., Adeli, E.

Experience

2019–2020 **CTO & Co-founder**, *IREEN*, Vienna
Real estate price prediction.
- Raised 400K € and increased the valuation to 2M € within one year
- Managed team of 4 remote data scientists and developers based on OKR

2017–2018 **Machine Learning Engineer**, *Smartup Venture Capital*, Tehran
- Developed AI solutions for 2 startups (recommendation system, chatbot)

Selected Invited Talks

Nov. 2022 Stanford University
Nov. 2022 Google Mountain View, Deep Learning Phenomena
Mar. 2022 MLcollective: Deep Learning, Classics and Trends
Feb. 2022 EPFL Virtual Symposium: Loss Landscape of Neural Networks
Oct. 2021 Google Montreal - sparsity group

Technical skills

Advanced PyTorch, Python
Intermediate KERAS, C/C++, LaTeX, MATLAB, Tensorflow
Basic MySQL, JAX

References

Olga Saukh **Graz University of Technology**, *Associate Professor*
saukh@tugraz.at

Behnam Neyshabur **Google**, *Senior Staff Research Scientist*
neyshabur@google.com

Hanie Sedghi **Google**, *Senior Research Scientist*
hsedghi@google.com

Ludwig Schmidt **University of Washington**, *Assistant Professor*
schmidt@cs.washington.edu