Rahim Entezari

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Education

2022	**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, expected: May 2023
	Exploring generalization in deep learning

Experience

2022–2022 **Research Intern**, *University of Washington*, Seattle
- Creating billion scale multi-modal datasets and distributed training of the neural network

2021–2022 **Research Collaborator**, *Google*, Mountain View
- Conducted several research projects leading to top-tier publications
- Large-scale training of neural network on Google Cloud AI Vertex

2019–2021 **CTO & Co-founder**, *IREEN*, Vienna
- Build a real estate price prediction engine from scratch using computer vision and geographical data
- Raised 400K € and increased the valuation to 2M € within one year
- Managed a team of 4 remote data scientists and developers

2017–2018 **Data Science Lead**, *Smartup Venture Capital*, Tehran
- Developed machine learning engines for 2 AI startups (recommendation system, chatbot)
- Coached board of directory on SaaS and data science

2016–2017 **Machine Learning Engineer**, *Sensifai*, Tehran, Remote for Leuven
- Developed computer vision services on AWS (Logo and Landmark recognition)

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.

Selected Publications

2023 **ICLR**, *REAPIR: Linear Mode Connectivity of Deep Neural Networks via Permutation Invariance and Renormalization*
Jordan, K., Sedghi, H., Saukh O., Entezari, R., Neyshabur, B.

2022 **ICLR**, *The Role of Permutation Invariance in Linear Mode Connectivity of NN*
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.

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.

Selected Invited Talks

Feb. 2023 IBM Research, MIT-IBM lab in Cambridge, MA
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 **Google**, *Senior Staff Research Scientist*
Neyshabur neyshabur@google.com

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

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