

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 Intern**, *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**, *Startup 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×\$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., Schmidt, 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