

Amir Hossein Amanzadi

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Education

Uppsala University

M.Sc. in Pharmaceutical Science - Drug Discovery & Development

• Supervisors: Prof. Ola Spjuth, Dr. Narsis Kiani

Uppsala, Sweden

Sep 2019 - Jul 2021

Sharif University of Technology

B.Sc. in Pure Chemistry

• Supervisors: Prof. Ali Pourjavadi, Prof. Amir Shamloo

Tehran, Iran

Sep 2013 - Jul 2018

Professional Experience

Diverge AI

AI Research Scientist

• Building specialized data cloud platforms for biomedical companies for secure integration of AI pipelines in their R&D workflows.

Tehran, Iran

Aug 2022 - Present

YouHealth AB

Bioinformatician - (remote)

• As part of DECISION EU Project. I performed clinical data analysis for over 2,500 liver cirrhosis patients and identified three combinatorial treatments that are undergoing phase II clinical trials.

Stockholm, Sweden

Mar 2022 - Aug 2022

Celeris Therapeutics

Computational Chemist

• Led a team of computational chemists and established Xanthos, an active learning drug discovery design engine.

Graz, Austria

Apr 2021 - Mar 2022

Center for Molecular Medicine (CMM)

Master Thesis Intern

• Established a Graph Convolutional Network (GCN) model for interpretable prediction of polypharmacy side effects.

Stockholm, Sweden

Nov 2020 - Apr 2021

Karolinska Institute

Graduate Research Assistance

• Developed graph representation learning models to identify drug combinations for diabetic patients with COVID-19 comorbidity.

Stockholm, Sweden

Nov 2019 - Nov 2020

Shenakht Pajouh (Cognition Research)

Machine Learning Engineer

• Contributed to developing various generative models to establish a conversational AI agent for people in mental health crises.

Tehran, Iran

Aug 2017 - Aug 2019

Sharif University of Technology

Research Assistant

• Designed multifunctional peptides for Alzheimer's disease. Led by Prof. Amir Shamloo.
• Synthesised a green bio-compatible hydrogel for rapid wound healing, under the supervision of Prof. Ali Pourjavadi.

Tehran, Iran

Oct 2015 - Aug 2017

Publications

- [1] Orasch, O., Weber, N., Müller, M., **Amanzadi, A.**, Gasbarri, C., & Trummer, C. (2022). Protein-protein interaction prediction for targeted protein degradation. *International Journal of Molecular Sciences*, 23(13), 7033. doi:10.3390/ijms23137033
- [2] **Amanzadi, A.** (2021). Predicting safe drug combinations with Graph Neural Networks (GNN) (Dissertation). *Uppsala University*. <http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-446691>
- [3] **Amanzadi, A.**, & Kiani, N. (2021). Explainable polypharmacy side effect prediction with Siamese graph convolutional neural networks. *4th RSC-BMCS Conference, Royal Society of Chemistry*.
- [4] Pourjavadi, A., Mazaheri Tehrani, Z., Salami, H., Seidi, F., Motamedi, A., **Amanzadi, A.**, Zayerzadeh, E., & Shabaniyan, M. (2020). Both tough and soft double network hydrogel nanocomposite based on o-carboxymethyl chitosan/poly(vinyl alcohol) and graphene oxide: A promising alternative for tissue engineering. *Polymer Engineering & Science*, 60(5), 889–899. doi.org/10.1002/pen.25297
- [5] Shamloo, A., Asadbegi, M., Khandan, V., & **Amanzadi, A.** (2018). Designing a new multifunctional peptide for metal chelation and AB inhibition. *Archives of Biochemistry and Biophysics*, 653, 1–9. doi.org/10.1016/j.abb.2018.06.004