Alireza Hashemi

Academic & Professional CV

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Education

- The City University of New York, Ph.D., Physics (Aug 2022 Present)
- Sharif University of Technology, M.Sc., Physics (Sep 2019 Jan 2022)
- University of Zanjan, B.Sc., Physics (Sep 2015 June 2019)

Work Experience

- Senior Data Scientist, blubank (May 2020 Aug 2022)
 Fraud detection, customer behaviour analysis, transaction network analysis
- Machine Learning Course Mentor, Rahnema College (2021)
- Machine Learning Intern, Rahnema College (2019)

Publications

- Social distancing in pedestrian dynamics
 Physical Review E A. Hashemi, S. Sajjadi (equal contrib.), F. Ghanbarnejad 2021
- Chaotic dynamics of active topological defects Soft Materials - A. Hashemi, M. R. Ejtehadi - 2021
- Analysis of the ground-state energy eigenvalues of fractal quantum potentials *Physica Scripta* **A. Hashemi**, A. H. Darooneh 2019
- Many-body effects on the radiative heat transfer in fractal nanostructures IJAA M. Nikbakht, S. Ahmadian, A. Hashemi 2017

Conferences

- DBS 2020 Social distancing in pedestrian dynamics (Talk)
- NetSci 2020 COVID-19 in Iran (Poster)
- CCS 2020 Effectiveness of social distancing through the lens of ABM (Talk)

Skills & Experience

- C++, Python, R, Matlab Social media data mining, NetworkX, graph-tool, gephi
- Machine Learning & deep learning with Python libraries, Numerical simulations
- Advanced SQL/NoSQL/Graph databases Data visualization, LATEX

Other

- TA for Physics 1, Analytical Mechanics 1&2 (Sep 2017), Electromagnetism (Sep 2018), Nonlinear Dynamics & Chaos (Sep 2020)
- Translation of the book "Dark Matter & Dark Energy" by Brian Clegg to Farsi
- NTD Hackathon runner up team (Covered in NPR.org <u>here</u>)
- 23rd & 24th School on Physics, IASBS
- Tehran School on Complex Networks (TACN2018), Shahid Beheshti University

References

Prof. Amir Hossein Darooneh, Dept. of Applied Math., University of Waterloo **Prof. Fakhteh Ghanbarnejad**, Dept. of Physics, Sharif University of Technology

Prof. Moladad Nikbakht, Dept. of Physics, University of Zanjan

Links

Google Scholar, Researchgate, LinkedIn, Homepage