

Hadi Mohaghegh Dolatabadi

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RESEARCH INTERESTS

Normalizing Flows, Generative Modeling, Adversarial Machine Learning, Unsupervised Learning

EDUCATION

- **The University of Melbourne** Melbourne, Australia
Ph.D. in Computing and Information Systems *June 2019 - Present*
- **Sharif University of Technology** Tehran, Iran
M.Sc. in Electrical Engineering. *Sep. 2015 - Sep. 2017*
 - **GPA:** 18.89/20.0 (4.00/4.00)
- **The University of Tehran** Tehran, Iran
B.Sc. in Electrical Engineering. *Sep. 2011 - Sep. 2015*
 - **GPA:** 18.33/20.0 (3.92/4.00)

HONORS AND AWARDS

- Accepted to *Machine Learning Summer School (MLSS) 2020* at the Max Planck Institute for Intelligent Systems, Tübingen, Germany (acceptance rate: 13.84%).
- Awarded a Graduate Research Scholarship to pursue Ph.D. at the University of Melbourne, Australia.
- Ranked 2nd among 33 Communication Systems students at Electrical Engineering Department, Sharif University of Technology, Tehran, Iran.
- Ranked 15th (top 0.2%) in the *Iranian Nationwide University Entrance Exam* for postgraduate studies in Communication Engineering.
- Recognized as the *Outstanding Talent* at University of Tehran and awarded admission to the M.Sc. program.
- Ranked 380th (top 0.15%) among more than 250,000 participants of the *Iranian Nationwide University Entrance Exam* for undergraduate studies.

SKILLS

Programming Python (PyTorch, TensorFlow, OpenCV, SciPy, SkLearn), C, Linux, MATLAB
Languages English (fluent, TOEFL iBT score of 113/120), Persian (native), Arabic (basic)

PUBLICATIONS

H. M. Dolatabadi, S. Erfani, and C. Leckie “AdvFlow: Inconspicuous Black-box Adversarial Attacks using Normalizing Flows,” to appear in *the 34th Conference on Neural Information Processing Systems (NeurIPS)*, 2020. (Link)

H. M. Dolatabadi, S. Erfani, and C. Leckie “Black-box Adversarial Example Generation with Normalizing Flows,” in *the ICML Workshop on Invertible Neural Networks, Normalizing Flows, and Explicit Likelihood Models*, 2020. (Link)

H. M. Dolatabadi, S. Erfani, and C. Leckie “Invertible Generative Modeling using Linear Rational Splines,” in *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 4236-4246, 2020. (Link)

H. M. Dolatabadi and A. Amini, “Deterministic Design of Toeplitz Matrices with Small Coherence Based on Weyl Sums,” *IEEE Signal Processing Letters*, vol. 26, no. 10, pp. 1501-1505, Oct. 2019. (Link)

H. M. Dolatabadi and A. Amini, “A Sampling Theorem for Convex Shapes with Algebraic Boundaries,” in *Proceedings of the International Conference on Sampling Theory and Applications (SampTA)*, pp. 499-503, 2017. (Link)

TEACHING EXPERIENCE

- **Compressed Sensing** Sharif University of Technology
Teaching Assistant Spring 2017
- **Signals and Systems** Sharif University of Technology
Teaching Assistant Spring 2017
- **Engineering Mathematics** Sharif University of Technology
Teaching Assistant Fall 2017

RELEVANT COURSE GRADES

- Probability & Statistics: 20.0/20.0
- Computer Vision: 19.9/20.0
- Linear Algebra: 19.75/20.0
- Blind Source Separation: 18.6/20.0
- Random Processes: 19.0/20.0
- Compressed Sensing: 19.4/20.0
- Information Theory: 19.2/20.0
- Engineering Mathematics: 19.7/20.0

ONLINE COURSES TAKEN AND AUDITED

- DataCamp** Data Analyst Career Track, Data Scientist Career Track
- Coursera** Discrete Optimization, Bayesian Statistics: From Concept to Data Analysis
- edX** Probability- the Science of Uncertainty and Data (MITx), Machine Learning (ColumbiaX), Fundamentals of Statistics (MITx)
- Udemy** PyTorch for Deep Learning and Computer Vision

REFERENCES

- Sarah Erfani** Senior Lecturer (Assistant Professor)
Department of Computing and Information Systems, The University of Melbourne
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Tel: +61-3-9035-8156
- Christopher Leckie** Professor
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