Adeel Mahmood

Curriculum Vitae

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Education

- 2015–2019 **Bachelor of Science**, Cornell University, Ithaca, NY, GPA: 4.077 Electrical and Computer Engineering
- 2019–2025 **PhD**, Cornell University, Ithaca, NY Electrical and Computer Engineering

Publications

- 2023 A. Mahmood and A. B. Wagner, "Lossy Compression With Universal Distortion," *IEEE Transactions on Information Theory*, vol. 69, no. 6, pp. 3552-3573, June 2023.
- 2023 A. Mahmood and A. B. Wagner, "Minimax Rate-Distortion," *IEEE Transactions on Information Theory*, vol. 69, no. 12, pp. 7712-7737, Dec. 2023.
- 2023 A. Mahmood and A. B. Wagner, "Timid/Bold Coding for Channels with Cost Constraints," 2023 IEEE International Symposium on Information Theory (ISIT), Taipei, Taiwan, 2023, pp. 1442-1447.
- 2024 **A. Mahmood** and A. B. Wagner, "Channel Coding with Mean and Variance Cost Constraints," 2024 IEEE International Symposium on Information Theory (ISIT), Athens, Greece, 2024, pp. 510-515.
- A. Mahmood and A. B. Wagner, "Improved Channel Coding Performance Through Cost Variability," submitted to *IEEE Transactions on Communications*, Sept. 12, 2024. [Online]. Available: https://arxiv.org/abs/2407.05260.

Academic Positions

- 2024 **Graduate Teaching Assistant**, Cornell University, ECE 5670: Digital Communication System Design
- 2022 Graduate Teaching Assistant, Cornell University, ECE 2720: Data Science for Engineers
- 2019 Undergraduate Teaching Assistant, Cornell University, ECE 3100: Probability and Inference for Random Signals and Systems
- 2018 Undergraduate Teaching Assistant, Cornell University, ECE 2300: Digital Logic & Computer Organization

Awards and Honors

- 2025 Winner of the 2025 Cornell ECE Outstanding Thesis Research Award
- 2022 IEEE Information Theory Society Student Paper Award Finalist
- 2019 Graduated Summa Cum Laude
- 2018 Frank and Rosa Rhodes Scholarship recipient
- 2018 Nominated for the Outstanding Undergraduate Teaching Assistant Award Cambridge International Qualifications (Certificates)

2015 GCE A Levels:

- Top in the World in A Level Physics
- O Top in the World in A Level Further Mathematics
- O Top in the World in A Level Chemistry
- O Top in Lahore in A Level Mathematics
- o First Place in Pakistan for Best Across Four Cambridge International A Levels

2013 GCE O Levels:

- Top in the World in Additional Mathematics
- o First Place in Pakistan for Best Across Seven Cambridge International O Levels