

**Huma Jamil**  
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## EDUCATION

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**Doctor of Philosophy (Ph.D.), Colorado State University**, Fort Collins, Colorado (August 2021 – May 2026)

Computer Science – GPA: 4.00

**Master of Science (MS), Quaid-i-Azam University**, Islamabad, Pakistan (September 2018 – June 2020)

Mathematics – GPA: 4.3/5.0

**Bachelor of Science (BS), Quaid-i-Azam University**, Islamabad, Pakistan (September 2014 – June 2018)

Mathematics – GPA: 3.5

## EXPERIENCE

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### Graduate Research Assistant – Computer Vision

*Colorado State University, Fort Collins, Colorado (August 2021 – present)*

- Collaborating with Mathematics department on a DARPA project on Geometry of Learning.
- Studying the geometry of neural networks and its Application in Adversarial AI and Explainable AI.
- Finding the canonical space for Adversarial embeddings to create a detection mechanism for the adversarial data.

### Graduate Teaching Assistant – Algorithm: Theory and Practice

*Colorado State University, Fort Collins, Colorado (August 2021 – May 2022)*

- Helped with the curriculum's ongoing development and design. Supported a scholarly and research-based method of teaching and learning for students.
- Hosted in-person and online office hours and relevant labs to help student understand the content and explained mathematical concepts
- Timely graded tests and assignments, gave insightful feedback on the students' work, highlighting their areas of strength and need for improvement.

### Teaching:

*Volunteer at [iCodeGuru](#), Pakistan (Sep 2020 - June 2021)*

- Assisted 100+ students in improving their coding skills
- Taught data structures and algorithms
- Taught data analysis with google sheets
- Presented 100+ Leetcode questions
- Lead the team of volunteers to manage that platform

## PUBLICATION

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- T. U. Haq, T. Shah, G. F. Siddiqui, M. Z. Iqbal, I. A. Hameed and H. Jamil, "Improved Twofish Algorithm: A Digital Image Enciphering Application," in *IEEE Access*, vol. 9, pp. 76518-76530, 2021, doi: 10.1109/ACCESS.2021.3081792.

## PROGRAMMING LANGUAGES AND SKILLS

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- |                         |                           |
|-------------------------|---------------------------|
| • Python (intermediate) | • Computer Vision         |
| • C++ (intermediate)    | • Cryptographic Protocols |
| • Matlab (beginner)     | • Adobe Illustrator       |

## LANGUAGES

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- English
- Urdu

## HONORS AND AWARDS

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- Earned fully funded scholarship for PhD
- Earned Merit Scholarships throughout the Master and Bachelor
- Participated in all Pakistan Women Singles and Doubles Badminton tournaments
- Won interdepartmental badminton championship twice (2018, 2019)