## Arkanil Roy University of North Texas

- I work in the Cisneros Group in the Department of Chemistry
- Computational studies of DNA pol y
  - Using QMMM techniques to determine the structural and functional dynamics of pol γ
  - Studying common SNPs to correlate to various cancer phenotypes
  - Programs used: AMBER, TINKER, LICHEM
- Gaussian Electrostatic Model (GEM) development
  - Optimization of the GEM density/multipole
  - Enhance energy calculation by integration into Psi4
  - Language: Fortran

## Arkanil Roy University of North Texas

- Gain insight into machine learning and deep learning to implement into my projects
- Get better at data visualization
- Become more efficient at HPC and write better scripts for the same
- Understand and implement Data Science applications