Yizhe Zhu

MSRI postdoc Office: 204

PhD from UC San Diego in 2021

Advisor: Ioana Dumitriu

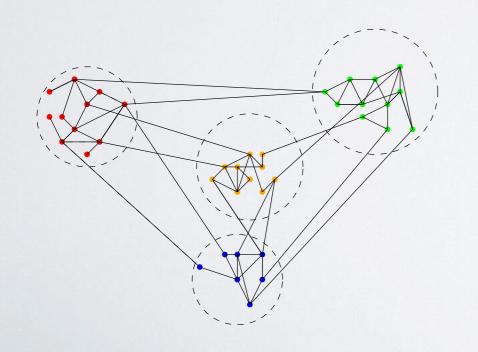
After: Postdoc at UC Irvine

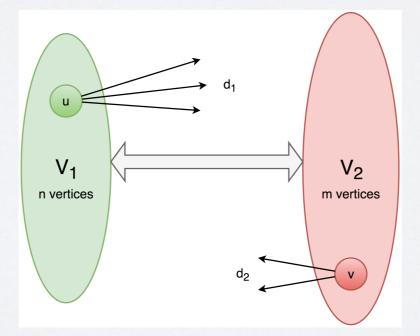
Research Interests:

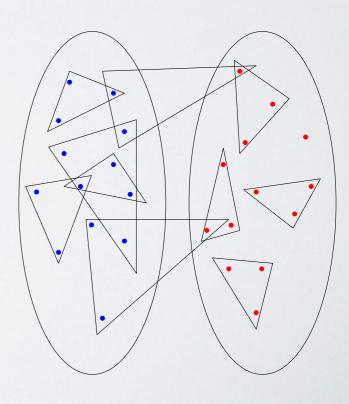
Sparse random matrices, random graphs, random hypergraphs

And applications in data science:

community detection/spectral clustering, tensor completion, neural network







- Inhomogeneous Erdős–Rényi random graphs: Wigner-type matrices with variance profile, graphon theory, quadratic vector equations
- Stochastic block model: non-backtracking operator, spectral algorithm for hypergraph community detection
- Random bipartite biregular graphs: spectral gap, eigenvalue fluctuation, random regular hypergraphs
- Nonlinear random matrix: Y = f(WX)