

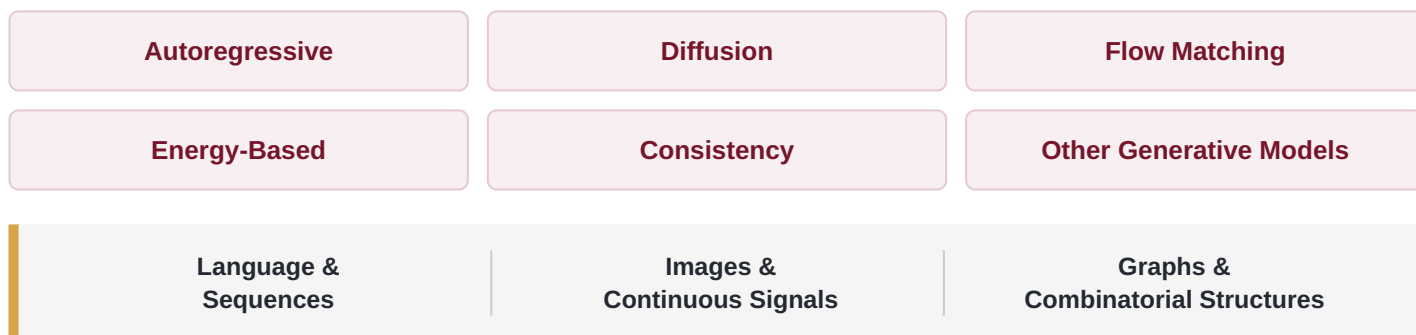
11-769

Generative Machine Learning

Beyond Autoregressive LLMs

Six Paradigms. Three Data Domains.

Compare the strengths, limitations, and emerging applications of modern generative learning approaches — beyond a single modeling paradigm.



Who Should Take This Course?

NLP / LLM students

Explore diffusion, flow matching, and alternatives to autoregressive models.

ML students

Compare modern generative paradigms across data types and applications.

CSD students

Explore learning-based approaches to graphs and NP-hard problems.

OR / Economics students

Explore machine-learning approaches to optimization and structured decisions.

Prof. Yiming Yang

Language Technologies Institute and Machine Learning Department · School of Computer Science

Course 11-769 · Carnegie Mellon University

Graduate Course (12 units)

Spring 2027

Tue & Thu · 12:30–1:50 PM



Course Website

yimingyang2026.github.io/11-769-s27

Schedule, guidelines, rubrics, and course updates