CSE5523 Final Project Presentation

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Introduction

- Use recurrent neural network to investigate aircraft industry panel data in Lanteri (2018).
- Data description:
  - Source: *Aircraft Values*, UK-based specialized consulting company.
  - 38 types of aircraft, individual companies' transaction over aircraft.
  - Sample size: 8597.
  - Variables in hand: $Y = \log(p)$, $X =$ year, aircraft model, aircraft age, aircraft model $\times$ aircraft age
- Goal: See how explain used aircraft price using Xs.

- Force myself to learn how to use Unity $\Rightarrow$ way more important for any computational-heavy research, especially in Macro.
- Analyze data that my DOGE model is based on.
  - Maybe there is some hidden connection that ordinary regression cannot reveal.
- Learn how to expand RNN, learn how to use Tensorflow.

▶ Lanteri, Andrea (Sept. 2018). "The Market for Used Capital: Endogenous Irreversibility and Reallocation over the Business Cycle". In: *American Economic Review* 108.9, pp. 2383–2419. ISSN: 0002-8282.