# Subjective Beliefs, Saving, and Spending for Retirement

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How many people die each year because of killer sharks?

How about killer cows?





# How do people think they will die?

#### The deadliest animals.

Average annual animal-caused fatalities in the U.S., 2001 to 2013

Sharks kill 1 person per year.

per year.

Alligators kill 1 person Bears kill 1 person per year.







Spiders kill 7 people per vear





Non-venomous arthropods kill 9 people per year.

Cows kill 20 people per year.

Dogs kill 28 people per year.

Other mammals kill 52 people per year.



Bees, wasps and hornets kill 58 people per year.



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## How old do you expect to live?



Prudential Financial survey of 400 people

"What is the age of the oldest person they've known?"

# Subjective beliefs and financial decisions over the life cycle

Financial decisions involve trade-offs between costs today vs. expected benefits

- Expected asset returns
- Future tax rates
- Expected retirement age

YOLO: Mortality Beliefs and Household Finance Puzzles. The Journal of Finance 74.6: 2957-2996.

Highlight role of mortality beliefs and key findings:

- 1. Mortality beliefs flip from underestimation to overestimation as people age
- 2. Salience of risk factors explains miscalibration
- 3. Affects life cycle financial decisions:
  - Undersaving for retirement
  - Slow draw down post-retirement
  - Portfolio allocation at all ages

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### Mortality beliefs over the life cycle

- Mortality beliefs flip over course of life cycle
- Robust finding, many other papers (at least back to Hamermesh 1985)



### Salient risk factors and mortality beliefs

### Risk weights are different for young vs. old



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#### Risk weights predict mortality belief miscalibration



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# Subjective mortality beliefs and life cycle financial decisions

### Results from a calibrated life-cycle model



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### Life cycle financial planning requires forecasting many variables

- People underestimate retirement ages (An and Sachdeva 2024)
- Forecasts about economic variables
  - housing prices (Kuchler and Zafar 2019)
  - stock market returns
  - employment (Das, Kuhnen, and Nagel 2020)
- Inheritance planning (Heimer and Li 2024)

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### Subjective forecasts of bequests

People overestimate value of bequests they will leave (HRS; Heimer and Li 2024)



## Conclusion

### Life cycle financial planning requires forecasting many variables

- People make large errors when forecasting mortality
  - under-saving for retirement
  - slow drawn down post-retirement
  - portfolio allocation over life-cycle
- Other variables are subject to errors
  - e.g., overestimate bequests

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